STATE OF MINNESOTA

DISTRICT COURT

COUNTY OF HENNEPIN

FOURTH JUDICIAL DISTRICT

State of Minnesota, by the Minnesota Pollution Control Agency,

Plaintiff,

Court File No. 670767

INTERROGATORIES TO DEFENDANT REILLY TAR & CHEMICAL

CORPORATION (SET I) AND RESPONSES THERETO

US EPA RECORDS CENTER REGION 5

and

City of St. Louis Park,

Intervenor-Plaintiff

VS.

Reilly Tar & Chemical Corporation,

> Defendant and Third-Party Plaintiff,

vs.

City of St. Louis Park,

Third-Party Defendant.

CORPORATIONS

INTERROGATORY NO. 1:

For each of the following entities, state the place, date of incorporation, the period of doing business in Minnesota and the date(s) of any merger, acquisition of assets or stock of one corporation by another:

- Reilly Tar and Chemical Corporation; (a)
- Char Products Company, Inc.; (b)
- Republic Creosoting Company.

Response to Interrogatory No. 1: Republic Creosoting Co. was incorporated in Indiana on December 21, 1905. Char Products Co. was incorporated in Indiana on March 16, 1923 (the name was changed to Char Products Co., Inc. on December 2, 1960). Reilly Tar & Chemical Corp. was incorporated in Indiana on February 28, 1933. January 1, 1961, Reilly Tar & Chemical Corp. and Char Products Co., Inc. were merged into Republic Creosoting;

the surviving corporation then changed its name to Reilly Tar & Chemical Corp.

The period of doing business in Minnesota was from sometime before 1914 to 1972, when operations ceased at the St. Louis Park plant.

- C. F. Lesher

INTERROGATORY NO. 2:

With regard to Reilly Tar and Chemical Corporation, Char Products Company, Inc. and Republic Creosoting Company, identify the following people, from the date of incorporation to the present:

- (a) The Chairman of the Board of Directors;
- (b) The members of the Board of Directors;
- (c) The Executive Officers;
- (d) The general manager of the Site.

Response to Interrogatory No. 2:

REILLY TAR & CHEMICAL CORPORATION

(up to 1/1/61 merger)

DIRECTORS

P. C. Reilly	1/17/34 to	1/22/52
Howard Kroehl	2/28/33 to	1/17/34
John A. Lawler	2/28/33 to	12/29/41
Robert J. Wechsler	2/28/33 to	1/1/61
Thomas E. Reilly	12/29/41 to	1/1/61
Carleton B. Edwards	1/22/52 to	1/1/61

OFFICERS

PRESIDENT

Howard Kroehl		2/28/33	to	1/17/34
P. C. Reilly	•	1/17/34	to	1/22/52
C. B. Edwards		1/22/52	to	1/1/61

VICE PRESIDENT

P. C. Reilly, Jr.	2/28/33 to 1/1,	/61
R. J. Wechsler	1/17/34 to 1/29	9/41
T. E. Reilly	12/29/41 to 1/1	/61

SECRETARY

J.	A.	Lawler	2/28/33	to	1/29/41
R.	J.	Wechsler	1/29/41	to	1/1/61

TREASURER

R.	J.	Wechsler	2/18/33 to	1/17/34
R.	A.	Lawler	1/17/34 to	1/29/41
R.	J.	Wechsler	1/29/41 to	1/22/52
P.	c.	Reilly, Jr.	1/22/52 to	6/2/59
T.	E.	Reilly	6/2/59 to	1/1/61

DIRECTORS (after 1/1/61 Merger)

CHAIRMAN

c.	в.	Edwards		1/1/61		
P.	c.	Reilly,	Jr.	5/9/74	to	5/10/76
T.	E.	Reilly	•	5/10/76	to	date

VICE CHAIRMAN

P. C. Reilly, Jr. 5/10/76 to date

DIRECTORS

T. P. G.	E. C. A.	Edwards Reilly Reilly, Reilly Boyle	Jr.		1/1/61 1/1/61 1/1/61 5/11/61 5/13/65	to to	* * 9/11/69
		Ryan			5/22/69		
R.	E.	McAdams			5/9/74	to	
T.	E.	Reilly,	Jr.		5/9/74		*
C.	F.	Lesher			12/3/85	to	*
R.	L.	Reilly			12/3/80	to	*
J.	H.	Heed			5/4/81	to	*

^{*} Present Directors

OFFICERS (from Merger 1/1/61)

PRESIDENT

P.	c.	Reilly,	Jr.		1/1/61	to	5/9/74
T.	E.	Reilly			5/9/74	to	5/10/76
T.	J.	Ryan	•	•	5/10/76	to	3/13/81
T.	E.	Reilly,	Jr.		3/13/81	to	date

VICE PRESIDENTS

G. T. F. T.	A. J. W. E. E.	Reilly Reilly Ryan Boyer Cislak Reilly, McAdams	5/12/77	to to to to to	9/11/69 5/9/74 5/9/74 5/9/74 3/13/81 date
c.	F.	Lesher	5/12/77	to	date
		Wheeler Lack	5/12/77 6/17/81		1/31/81 date

EXECT. VICE PRESIDENTS

T.	E.	Reilly	5/14/70		
T.	J.	Ryan	5/9/74	to	5/10/76

SECRETARY

R.	J.	Wechsler		1/1/61	to	5/13/65
R.	J.	Boyle		5/13/65	to	5/9/74
R.	E.	McAdams		5/9/74.	to	date

TREASURER

T.	E.	Reilly	1/1/61	to	5/9/74
T.	J.	Ryan	5/9/74	to	5/10/76
R.	E.	McAdams	5/10/76	to	6/17/81
D.	L.	Henry	6/17/81	to	date

REPUBLIC CREOSOTING COMPANY

(up to 1/1/61 merger)

DIRECTORS

P. C. Reilly James Broden Ineva T. Reilly Robert F. Peele	12/21/05 12/21/05 12/21/05 12/2/07	to to	12/2/07 12/6/20 5/5/08
Fred Shumaker A. J. Lauth	12/7/08 12/3/17		
R. J. Wechsler Richard L. Talbot	12/15/22	to	
C. B. Edwards	1/22/52 3/10/28	to	1/1/61
John A. Lawler T. E. Reilly	12/5/60 12/3/28 12/29/41	to	12/29/41

PRESIDENT

P.	c.	Reilly	12/21/05	to	1/22/52
c.	в.	Edwards	1/22/52	to	6/2/59

VICE PRESIDENT

Ineva T. Reilly	12/21/05	to	5/6/08
Fred Shumaker	5/6/08	to	12/3/17
Ineva T. Reilly	12/3/17	to	12/6/20
R. L. Talbot	12/6/20	to	12/15/22
R. J. Wechsler	12/15/22	to	12/29/41
P. C. Reilly, Jr.	12/2/35	to	1/1/61
Thomas E. Reilly	12/29/41	to	1/1/61

SECRETARY

James Broden	12/21/05	to	12/9/07
Ineva T. Reilly	12/9/07	to	12/10/07
Robert F. Peele	12/10/07	to	5/5/08
Ineva T. Reilly	5/6/08	to	12/3/17
Alphous J. Lauth	12/3/17		
John A. Lawler	3/10/28	to	12/29/41
R. J. Wechsler	12/29/41	to	1/1/61

TREASURER

James	Broden	12/21/05	to	12/9/07
Ineva	T. Reilly	12/9/07	to	12/10/07

Robert F. Peele	12/10/07	to	5/5/08
Ineva T. Reilly	5/6/08	to	12/3/17
Alphous J. Lauth	12/3/17	to	3/10/28
John A. Lawler	3/10/28		
Robert J. Wechsler	12/29/41	to	1/22/52
Peter C. Reilly, Jr.	1/22/52		
Thomas E. Reilly	6/2/59	to	1/1/61

CHAR PRODUCTS COMPANY

DIRECTORS

3/16/23	F. J. Krieg, W. C. Horner and W. H. Kelley
3/10/24	John J. Wanner, Robert J. Wechsler and
	A. J. Lauth
3/15/28	P. C. Reilly, R. J. Wechsler and
	John A. Lawler
3/10/41	P. C. Reilly, R. J. Wechsler and
	T. E. Reilly
1/22/52	C. B. Edwards, R. J. Wechsler and
_,,	T. E. Reilly
3/7/60	P. C. Reilly, Jr., R. J. Wechsler and
-, -,	T. E. Reilly

OFFICERS

PRESIDENT

3/16/23	W. C. Horner
3/10/24	John J. Wanner
3/8/26	R. J. Wechsler
2/1/28	P. C. Reilly
1/22/52	C. B. Edwards
3/7/60	P. C. Reilly, Jr.

VICE PRESIDENT

3/16/23	F. J. Kri	eg
3/10/24	R. J. Wec	hsler
3/8/26	NO VICE P	RESIDENT
2/1/28	R. J. Wec	hsler
3/10/41	T. E. Rei	lly

SECRETARY

3/16/23	w.	H.	Kelley
3/10/24	A.	J.	Lauth
2/1/28	J.	A.	Lawler
3/10/41	R.	J.	Wechsler

TREASURER

3/16/23	NONE	
3/10/24	A. J.	Lauth
2/1/28	J. A.	Lawler
3/10/41	R. J.	Wechsler
3/7/60	T. E.	Reilly

General Manager of St. Louis Park Site

Purchase to 1952 A. E. Larkin

H. L. Holstrom 1952 - 1960

H. L. Finch 1960 - closing

- C. F. Lesher

INTERROGATORY NO. 3:

State when the Board of Directors for Reilly Tar and Chemical Corporation, Char Products Company, Inc. and Republic Creosoting Company met, with regard to environmental affairs (including waste disposal and the control of water and air pollution) and/or met with regard to communications with federal, state or local units of government, and provide the minutes for each such meeting.

Response to Interrogatory No. 3: The Board of Directors did not deal with pollution control or environmental Some members of the Board, however, were matters per se. also members of the Finance Committee which reviewed and approved all major capital expenditures through work order requests submitted by the plants. All existing work order requests and approvals have been provided (e.g., Document Numbers 200,000 - 202,591).

- R. Polack

OWNERSHIP AND OCCUPANCY OF THE SITE

INTERROGATORY NO. 4:

Describe in detail the ownership and occupancy of the Site and the Ponding Area, including:

- The date when Reilly began its activities at (a) the Site and the nature of those activities;
- (b) The date when Reilly ceased its activities at the Site;
- The date when Reilly vacated the Site; (c)
- The fair market value of the Site at the (d) time of sale to the Authority, the identity of the person(s) making the valuation and the basis or method of valuation.

Identify all previous occupants of the Site, or portions of the Site, including all previous owners and all previous tenants, the dates of their ownership and/or occupancy, identification of the land owned and/or occupied and the activities conducted on the land during the ownership and/or occupancy.

Response to Interrogatory No. 4: Reilly Tar & Chemical Corp. is not aware of the ownership or occupancy of the Ponding Area. With respect to the Site, the following information is provided:

- (a) St. Louis Park plant property was purchased November 11, 1915. The refinery and treating plant were built between 1917-23.
- (b) Last employees were dismissed in July 1972.
- (c) Possession according to the purchase agreement was to be transferred on October 2, 1972.
- (d) Fritz Brandenberg appraisal report to the City of St. Louis Park valued the property at \$2,136,300.

Prior owners of the Site:

George Volk and Olive P. Simmers (widow of Edward P. Simmers); Minnesota Sugar Co. (see documents 10703-10710); Heirs of Harriet Walker (see documents 10384-10385); Glen Martz (see document 10399)

- C. F. Lesher

INTERROGATORY NO. 5:

Describe in detail the physical condition of the Site and the Ponding Area at the time Reilly purchased the Site, including but not limited to the following:

- (a) The location and appearance of all ditches, trenches, culverts, cisterns, basins and/or ponds;
- (b) The precise location of wells and the quality of water taken from the wells;
- (c) The drainage characteristics and topography or contours of the land surface;
- (d) The existence of wastes, contaminants and pollutants on or beneath the land surface and/or in the surface water or groundwater.

Response to Interrogatory No. 5: Any information known about the physical condition of the site at the time it was purchased is described in documents provided (e.g., document numbers 10,000 - 10,808).

- R. Polack

INTERROGATORY NO. 6:

Describe in detail the drainage characteristics and topography of the Site and the Ponding Area during the period while Reilly was conducting activities at the Site. Identify all ditches and other locations where surface water and wastes flowed across and off the Site. State whether Reilly altered the topography of the Site and/or the Ponding Area; for example, by doing earthmoving activities, including the excavation, depositing and moving of soil or other fill, and if so, state when and how extensive the activity was and the purpose for the activity.

Response to Interrogatory No. 6: When Reilly was conducting activities at the site, the topography was essentially a flat piece of land with the North end being approximately ten (10) feet higher than the South end. There was one low hill on which the plant office was built.

Generally surface water flowed from the North,
East, and West sides of the plant toward the South.

Industrial waste water flowed through an 8" vitrified tile
from a drain at the North end of the Refinery building to
a sump at the North of the oil-water separator; and
through a 6" vitrified tile pipe to catch any overflow
from the sumps at the treating cylinders; and through a
four (4) inch tile from the drain in the Tank house. The
waste water was pumped from the receiving sump to the
oil-water separator.

Oil recovered from the separator was pumped to a decanting tank at the treating plant. The waste water flowed through an 8" vitrified tile sewer to a straw filter located near the Southwest corner of the plant.

Effluent from the straw filter left the plant by flowing through a pipe under Walker Street.

Reilly did not substantially alter the topography of the site or the Ponding Area.

- R. J. Hennessy

INTERROGATORY NO. 7:

Describe in detail the demolition of the Site at the time Reilly vacated the Site, including the destruction, dismantling, removal, filling or abandonment of buildings, tanks, trenches, dikes, basins, wells, structures and facilities. Include the following information in the description of the demolition activities:

- (a) With regard to the removal of any material from the Site, including but not limited to soil, sludges and waste residuals, state the total amount (by volume and weight) and identify the location of final disposal;
- (b) With regard to the structures, facilities and wastes left on the Site, identify the location of the disposal on the Site and identify what was disposed of at that location;
- (c) Describe the contours of the Site before demolition activities began, any changes in the contours during the course of the demolition, and the final contours of the Site;
- (d) State whether Reilly was granted any permit, license, permission or approval by any governmental entity to conduct its demolition activities at the Site, and if so, identify the governmental entity and the date and nature of the approval.

Response to Interrogatory No. 7: Any information about the demolition of the site is included in documents provided (e.g., numbers 300,000 - 304,518; 10,000 - 10,808).

- R. Polack

ENVIRONMENTAL AFFAIRS

INTERROGATORY NO. 8:

Identify all persons who had authority to approve or veto environmental, waste disposal, or pollution control expenditures proposed, planned or carried out at

the Site, or the Ponding Area; as well as those who now have authority to approve or veto expenditures for remedial measures to abate the existing pollution condition. For each such person:

- (a) Define the relationship of the person to Reilly; and
- (b) Identify all documents which describe the relationship between the person and Reilly.

Response to Interrogatory No. 8: Prior to his death in 1952, all major capital expenditures were approved or vetoed by Mr. P. C. Reilly, generally after having been proposed and/or planned by the Plant Manager and the Chief Engineer.

Between 1952 and 1969, they would have been proposed and/or planned by the Plant Manager, the Chief Engineer and the Refinery Production/General Manager and approved or vetoed by Mr. T. E. Reilly, Mr. P. C. Reilly, Jr., and/or Mr. C. B. Edwards.

After 1969 the approval or veto would have been by the Finance Committee.

The Plant Manager chronology is listed in the Response to Interrogatory No. 2.

The Chief Engineer was Mr. H. R. Horner to 1972 and Mr. R. J. Hennessy, 1972 to 1980.

The Refinery Production or General Managers were Dr. F. J. Mootz to 1963 and Mr. C. F. Lesher, 1963 to date.

The Republic Creosoting Division General Managers were Mr. T. E. Reilly, 1952-1961, Mr. G. A. Reilly, 1961-1969, and Mr. L. W. Boyer, 1969-1974.

The Plant Managers would have carried out all changes and improvements and could have proceeded without approval with minor expenditures (less than several hundred dollars).

- C. F. Lesher

INTERROGATORY NO. 9:

Identify the person or persons who had responsibility for managing Reilly's environmental affairs, including waste disposal and the control of water and air pollution, and identify all employees who were responsible within the Corporation for determining the location at which a particular load, quantity, or type of waste would be disposed of or who would have knowledge of such disposal.

Response to Interrogatory No. 9: In general, during the period of occupancy of the St. Louis Park site, the Plant Manager would have managed and directed the local environmental affairs, seeking advice or direction when needed, from Mr. P. C. Reilly, the Chief Engineer and/or the General Manager.

The Plant Manager would have been responsible for specific details of waste disposal.

- C. F. Lesher

INTERROGATORY NO. 10:

State whether Reilly now has, or has ever had, written procedures, policies, requirements or guidelines used, considered or available for use in considering or determining whether to install, purchase, or invest in pollution control equipment at the Site. If so, state such procedures, policies, requirements or guidelines and identify the documents in which they are contained. If no such procedures, policies, requirements or guidelines exist, or have existed, describe how Reilly has considered and decided whether to install pollution control equipment, including identification of all persons involved and of all information collected, developed or analyzed relating to Reilly's decisions or deliberations.

Response to Interrogatory No. 10: No written procedures, policies, requirements or guidelines exist with respect to the Site.

The St. Louis Park Plant supervisory personnel, the corporate engineering staff personnel and company management would have collected, developed and analyzed information from their education and training, from contacts with others in the tar refining, wood preserving

and associated industries, and from trade and technical journals.

- C. F. Lesher

PERMITS AND LICENSES

INTERROGATORY NO. 11:

State whether Reilly has been issued or denied any permits or licenses regarding the Site by any federal agency pursuant to environmental, transportation, health or other laws or regulations and, if so, state:

- (a) Name of agency or agencies;
 - (b) Date(s) of such issuance or denial;
 - (c) The permit or license application date and the number or other identifier; and,
 - (d) Purpose of the issuance of each such permit or license.

Include an identification of all applications made and withdrawn prior to action by the Agency.

Response to Interrogatory No. 11: Reilly Tar & Chemical Corp. is unable to locate any such permits, licenses, or applications.

- W. Justin

INTERROGATORY NO. 12:

State whether Reilly has been issued or denied any permits or licenses regarding the Site by any State of Minnesota agency, pursuant to environmental, transportation, health, building or other laws or regulations, and if so, state:

- (a) Name of agency or agencies;
- (b) Date(s) of such issuance or denial;
- (c) The permit or license application date and the number or other identifier; and,
- (d) Purpose of the issuance of each such permit or license.

Include an identification of all applications made and withdrawn prior to action by the Agency.

Response to Interrogatory No. 12: Reilly Tar & Chemical Corp. is unable to locate any such permits, licenses, or applications.

- W. Justin

INTERROGATORY NO. 13:

State whether Reilly has been issued or denied any permits or licenses by any regional county or municipal agency, including the City and the Commission, regarding the Site, pursuant to environmental, transportation, health, building or other laws, ordinances or regulations, and if so, state:

- (a) Name of agency or agencies;
- (b) Date(s) of such issuance or denial;
- (c) The permit or license application date and the number or other identifier; and,
- (d) Purpose of the issuance of each such permit or license.

Include an identification of all applications made and withdrawn prior to action by the Agency.

Response to Interrogatory No. 13: See documents 301880, 301887, 303986, 301574, 302219, 302097, 301567, 301854, 302085, 301846, for environmental. Reilly Tar & Chemical Corp. is unable to locate any permits, licenses or applications with respect to other agencies.

- W. Justin

SOURCES AND USES OF WATER

INTERROGATORY NO. 14:

Describe in detail the sources of the water used at the Site, as well as all the uses of water at the Site.

Response to Interrogatory No. 14: Sources of water used at the site were a well drilled in 1918 and used until 1958 and city water.

City water and well water were used for condensing vapors and cooling products. City water was also used for sanitary purposes such as showers, drinking fountains, and sanitary facilities.

- R. J. Hennessy

INTERROGATORY NO. 15:

For each well on the Site, including well(s) that were used and wells that were not used by Reilly as a source of supply, state the following:

(a) The State appropriation number for water withdrawal;(b) The precise location of the well;(c) The name of the well driller;(d) The date of original construction of the well;

(e) The method of construction;

- (f) The material used for construction;
- (g) The depth of the well, including the depth of the casing;
- (h) The type and capacity of pump installed in the well;
- (i) The date and nature of any maintenance or reconstruction of the well and/or the pump;
- (j) The period(s) when water was withdrawn from the well;
- (k) The amount, on a calendar year basis, of water pumped from each well;
- (1) The specific use(s) of water pumped from the well;
- (m) A description of the appearance, odor and other characteristics of the water as drawn from the well;
- (n) An identification of the results of any chemical analyses of water withdrawn from the well, including the date of sampling, the sampling method (i.e., 24 hour composite or instantaneous) and the analytic methodology used;
- (o) The amount of water disposed of, on a calendar year basis, into the well, the date of each disposal incident and the purpose for the disposal;
- (p) The method of abandonment of the well, including the date of abandonment;
- (q) A description of any housing, shelter or protection for the well, including anything built to prevent surface runoff from entering the well.

Response to Interrogatory No. 15: See Appendix F.

GENERAL

INTERROGATORY NO. 16:

Identify all blue prints, flow charts, technical drawings, photos, diagrams, measurements, surveys, engineering sketches, and other documents which depict the coal tar refining and wood preserving processes done at the Site, as well as the storage of treated wood on the Site. Include a flow diagram of the processes from their inception and indicate the date, nature and reason for any subsequent changes in the processes until Reilly ceased its activities at the site.

Response to Interrogatory No. 16: Attached as Appendix A is an index identifying all blue prints, technical drawings, surveys, etc. for the St. Louis Park, Minnesota plant.

Attached as Appendix B is the probable flowsheet for the tar refining operation in the 1920's and 1930's.

Attached as Appendix C is the probable flowsheet for the tar refining operation in the 1930's. $^{\text{Cl}}$

Attached as Appendix D is the flowsheet for the $_{\text{CL}}$ tar refining operation in the 1960's.

Attached as Appendix E is the flowsheet for the $\mbox{K†H}$ timber creosoting operation from 1920 to 1970.

Various treatment processes differing in details were used at the St. Louis Park plant, but the general method of handling is the same in all cases.

All photos have been produced.

- R. J. Hennessy

RAW MATERIALS

INTERROGATORY NO. 17:

For each raw material used in the coal tar refining and wood preserving processes at the Site, including but not limited to coal tar, state the following:

- (a) The chemical composition of each material;
- (b) For each calendar year, the supplier(s) of the material;

- (c) The form of the material as purchased (i.e., solid, powder, semi-solid or liquid) and its intended or actual uses;
- (d) Method of transport to the Site;.
- (e) For each calendar year, state the following:
 - (1) the amount of raw material received at the Site;
 - (2) the amount used in the course of the coal tar refining and wood preserving processes;
 - (3) the amount of raw material not used in the course of the coal tar refining and wood preserving processes and how this raw material was otherwise used by Reilly or how Reilly stored or disposed of the raw material.

Response to Interrogatory No. 17:

(a) Coal Tar is a mixture of a large number of organic compounds chiefly isocyclic and heterocyclic organic compounds. of the number are as high as 10,000 although only about 300 have so far been isolated. typical elemental analysis would be 90.8% carbon, 5.4% hydrogen, 1.6% oxygen, 1.4% nitrogen, 0.6% sulfur and 0.1% ash. products produced by the crude distillation at the plant were crude subdivisions of the mixture, generally differentiated by boiling The fractions themselves, however, range. were multi-component mixtures except for for the following: Into the 1940's the plant distilled the tar completely to a coke, characterized from most cokes by a higher carbon, lower ash content. And, the by-products operation during that same period produced a crude naphthalene oil and

crude mixture of tar acids, both of which were shipped out for further refining.

Early, before 1940, the plant treated some wood with a ZnCl₂, solution (2-3%). And in later years some of the wood treatment was a petroleum/creosote solution, the petroleum being similar in nature and chemistry to a residual fuel oil.

(b) No complete supplier lists are available other than at times tar was purchased from the following:

Key City Gas Company Ford Motor Company Carnegie Illinois Steel Company City of Cedar Falls Gas Company Water Light Sinking Fund Company -Peoples Power Company Interstate Power Company
Lake Superior District Power Company Michigan Gas & Electric Company American Tar Products Company Barrett Company Fuel Oil Corp. American Tar & Chemical Company Wisconsin Hydroelectric Company Wisconsin Fuel & Light Company West End Iron & Metal Corp. Northern States Power Company Koppers Products Company Northern Indiana Public Service Co. Central Illinois Electric & Gas Co. Minneapolis Gas Light Company Des Moines Gas Co. Youngstown Sheet & Tube Company Sioux City Gas & Electric Company Iowa Public Service Company
Inland Steel Company E. I. DuPont De Nemours & Co. Ottumwa Gas Company Illinois Northern Utilities Company Iron Mountain Gas Company Illinois Power & Light Company U.S. Steel Corp.

- (c) Coal Tar is a semi-solid-liquid, generally requiring heat to reduce the viscosity for pumping.
- (d) Transport was by tank-car and trailer truck.

(e) Actual tar purchases are available for the two following periods.

1934-51		1959	9-71
Tar-10	00 Gal.	Tar-100	00 Gal.
1934	1829	1959	6050
1935	3465	1960	5915
1936	4844	1961	3319
1937	4726	1962	.3218
1938	1523	1963	3776
1939	3234	1964	4585
1940	2301	1965	5354
1941	4240	1966	5824
1942	5250 ⁻	1967	4977
1943	4902	1968	4871
1944	5140	1969	5591
1945	5874	1970	4380
1946	4424	1971	2732
1947	3664		
1948	2423		
1949	2667	•	
1950	2275		
1951	2365	•	

We believe all the tar purchases were used in refining, wood preserving, or road tars except for unaccounted or unknown losses, which were not relatively significant.

- C. F. Lesher

INTERROGATORY NO. 18:

For any raw material disposed of by Reilly, either at the Site or off the Site, state the following for each disposal incident:

- (a) The date of such disposal;
- (b) The chemical composition of the raw material disposed of and the supplier of the material;
- (c) How disposal occurred;
- (d) The location of the disposal, including reference to any wells, ponds, basins, ditches and trenches;
- (e) The equipment, if any, used to accomplish the disposal;
- (f) The total amount (by volume and weight) of material disposed of;
- (g) The identity of any governmental entity to whom the disposal was reported, the date and

manner of such notification and the identity of the official so notified;

- (h) The details of the clean-up or recovery effort, if any;
- (i) The total amount of material recovered and its ultimate disposition;
- (j) The identity of the persons with knowledge of the facts of any such disposal incident.

Response to Interrogatory No. 18: Little data is available on disposal, except as would have been noted on Document 103221, where the cistern was cleaned and the sludge used in the tie yard, probably as a stabilizer or binder, instead of road tar.

- C. F. Lesher

TRANSPORTATION OF COAL TAR TO THE SITE

INTERROGATORY NO. 19:

Describe in detail the method of transport of coal tar to the Site and the method of transferring the coal tar into storage at the Site. Include the date, nature and reason for any change(s) in the method of transport. If transport was by railcar, identify the rail carrier(s) and the type of rail cars used. If transport was by truck, identify the truck carrier(s) and type of truck used.

Response to Interrogatory No. 19: No specific details are available. Coal tar probably would have been delivered by tank truck and/or tank cars; we would expect both to have been used. Both tank trucks, and the tank cars after heating with steam, would have been hooked to pumps and a piping system with hose or pipe connections and pumped to the tar storage tanks. Probably in some cases, they were drained by gravity thru pipes into the tar cistern.

- C. F. Lesher

INTERROGATORY NO. 20:

State whether there were any safeguards, including diking systems, to prevent the disposal of coal tar as it was transferred to storage at the Site, and if so, identify the safeguards, including diking systems, used to prevent the disposal of coal tar.

Response to Interrogatory No. 20: There was no diking system at the St. Louis Park Plant.

Prevention of disposal of coal tar as.it was transferred from tank cars to storage at the site was accomplished by trenches which drained by gravity to the tar vat, or in other areas, to sumps from where it was pumped to tanks. The most important method of prevention of disposal was precautionary operating practices without which no disposal prevention method will work.

- R. J. Hennessy

INTERROGATORY NO. 21:

State whether there was any disposal of coal tar within five miles of the Site, or at the Site, and if so, state the following for each disposal incident:

- (a) The date of such disposal;
- (b) How disposal occurred;
- (c) The location of the disposal, including reference to any wells, ponds, basins, ditches and trenches;
- (d) The equipment, if any, used to accomplish the disposal;
- (e) The total amount (by volume and weight) of the coal tar disposed of;
- (f) The details of clean-up or recovery efforts, if any;
- (g) The identity of any governmental entity to whom the disposal was reported, the date and manner of such notification and the identity of the official so notified;
- (h) The total amount of coal tar recovered and its ultimate disposition;
- (i) The identity of the persons with knowledge of the facts of any such incident.

Response to Interrogatory No. 21: See Response to Interrogatory No. 18.

- C. F. Lesher

COAL TAR STORAGE

INTERROGATORY NO. 22:

Describe in detail the storage of coal tar at the Site. Include the date, nature and reason for any change(s) in the storage of coal tar. Identify the precise location of storage, the type of container used (cistern, impoundment, lagoon, or other); specify its capacity; describe its design and construction, including any cover and/or lining.

Response to Interrogatory No. 22: Coal tar was stored in a 308,700 gallon capacity concrete vat 100 ft x 60 ft. The vat consisted of four concrete walls and a concrete floor the top of which was approximately four (4) ft. above grade. A wood roof covered the vat. Because of deterioration, the roof was removed in the late 1960's.

At various times, tanks 1 to 10 were used for the storage of tar and oil. Contents varied, and none of the tanks was dedicated to the storage of tar exclusively, but the tanks were used as needed and as available as the tar supply fluctuated. Following are the sizes of the tanks:

Tank No.	Capacity
1	47,000
2	100,000
3	500,000
4	250,000
5	250,000
6	250,000
7	100,000
8	100,000
9	50,000
10	50,000

- R. J. Hennessy

INTERROGATORY NO. 23:

State whether there were any safeguards to prevent the disposal of coal tar from storage, and if so, identify the safeguards used to prevent the disposal of coal tar from storage.

Response to Interrogatory No. 23: See Response to Interrogatory No. 20.

-R. J. Hennessy

INTERROGATORY NO. 24:

State whether there was any procedure or any equipment used to detect or determine the disposal of coal tar from storage, and if so, identify the procedure and/or equipment used to detect or determine the disposal of coal tar from storage.

Response to Interrogatory No. 24: We are not aware of any detection equipment other than visual observation.

Generally, a monthly inventory based on guages of the tanks would have been taken and a monthly proof of inventory or balance made, based on those guages and guages taken during transfers of material or production operations.

- C. F. Lesher

INTERROGATORY NO. 25:

State whether there was any disposal of coal tar from storage, and if so, state the following for each disposal incident:

- (a) The date of such disposal;
- (b) How disposal occurred;
- (c) The location of the disposal, including reference to any wells, ponds, basins, ditches and trenches;
- (d) The equipment, if any, used to accomplish the disposal;
- (e) The total amount (by volume and weight) of the coal tar disposed of;
- (f) The identity of any governmental entity to whom the disposal was reported, the date and manner of such notification and the identity of the official so notified;
- (g) The details of clean-up or recovery efforts, if any;
- (h) The total amount of coal tar recovered and its ultimate disposal;
- (i) The identity of the persons with knowledge of the facts of any such incident.

Response to Interrogatory No. 25: See Response to Interrogatory No. 18.

- C. F. Lesher

INTERROGATORY NO. 26:

Describe in detail how coal tar was moved from the area where it was stored to the area where it was refined. Include the date, nature and reason for any change(s) in the method of movement of coal tar from the area where it was stored to the area where it was refined.

Response to Interrogatory No. 26: Coal tar was pumped from tar storage to the stills through pipelines. This method was used from the origin of the plant.

- R. J. Hennessy

INTERROGATORY NO. 27:

State whether pipes were used, in whole or in part, as a means to move the coal tar from storage to the area where the coal tar was refined, and if so, state the following:

- (a) When pipes were used;
- (b) The length and diameter of the pipes;
- (c) The material used to construct the pipes;
- (d) The location of the pipes;
- (e) Whether the pipes were heated, and if so, by what method and to what temperature;
- (f) Whether the pipes were located above or below the surface of the ground, including the distance above or below the surface of the ground;
- (g) The type, construction and condition of trench(es) or casing(s) for the pipes;
- (h) Whether the pipes, trench(es) or casing(s) were subject to periodic flooding. If 'so, state when the flooding occurred, as well as the duration and the effects of any flooding, including whether there was any leakage into the lines;
- (i) Whether the pipes, trench(es) or casing(s) were affected by freezing conditions. If so, state when the freezing occurred, as well as the duration and the effects of any such freezing;
- (j) Whether the pipes, trench(es) or casing(s) were investigated, tested, or evaluated by Reilly, or anyone else; and if so, who made the investigation, test or evaluation, what procedure was followed and how often was it done, and what results were obtained;

- (k) The identity of any breaks or ruptures in the pipes and the date(s) of such occurrence(s);
- (1) Whether the pipes or casings were replaced or repaired, or the trench(es) were repaired, and if so, the dates and the reasons for the replacement or repair.

Response to Interrogatory No. 27:

- (a) Pipes were always used (the only method) to transport tar from the storage tanks to the refinery.
- (b) They varied in size from 1½" to 6" in diameter and were of varying length, the longest being about three hundred (300) ft.
- (c) All pipes were made of steel.
- (d) In concrete trenches between the storage area and the refinery.
- (e) Pipes were preheated by blowing steam through them prior to pumping.
- (f) They were below ground approximately 18".
- (g) The pipe trenches had concrete walls and bottom and creosoted wooden tops. The condition of the trenches varied from excellent when installed to poor when we began abandoning them in 1967 and rerouting the piping above ground.
- (h) The trenches were subject to periodic flooding when the Refinery area became flooded during heavy rains. After Louisiana Avenue was repaved and curbed in 1955 and the storm water discharged into the plant, the frequent flooding caused the trenches to eventually become filled with sand and silt covering the piping and making inspection and repair difficult.

- (i) Freezing and thawing of this water-logged material accelerated the deterioration of the concrete trenches.
- (j) Maintenance records showing who inspected the trenches and when are no longer available.
- (k) We do not know of any breaks or ruptures.
- (1) In 1968-70, the piping was removed from the trenches and run just above the ground. The trenches were then filled with sand and gravel.
 - R. J. Hennessy

INTERROGATORY NO. 28:

State whether there was any procedure or any equipment used to detect or determine the disposal of coal tar in the course of its movement from storage to the place of refinement, other than as detailed in the answer to the preceding interrogatory, and if so identify the procedure and/or equipment used to detect or determine the disposal of coal tar in the course of its movement from storage to the place of refinement.

Response to Interrogatory No. 28: See Response to Interrogatory No. 24. No other data is available.

- C. F. Lesher

INTERROGATORY NO. 29:

State whether there was ever a disposal of coal tar in the course of its movement from storage to the place of refinement, and if so, state the following for each disposal incident:

- (a) The date of such disposal;
- (b) How disposal occurred;
- (c) The location of the disposal, including reference to any wells, ponds, basins, ditches and trenches;
- (d) The equipment, if any, used to accomplish the disposal;
- (e) The total amount (by volume and weight) of the coal tar disposed of;

- (f) The identity of any governmental entity to whom the disposal was reported, the date and manner of such notification and the identity of the official so notified;
- (g) The details of clean-up or recovery efforts, if any;
- (h) The total amount of coal tar recovered and its ultimate disposal;
- (i) The identity of the persons with knowledge of the facts of any such incident.

Response to Interrogatory No. 29: No data is available.

- C. F. Lesher

COAL TAR REFINING

INTERROGATORY NO. 30

Describe in detail all the processes by which coal tar was refined at the Site. Include the date, nature and reason for any changes in the processes.

Response to Interrogatory No. 30: The general coal tar processing principles remained the same throughout the plant's operation, except for several variations due to market conditions which will be noted.

Coal tar was received from suppliers in tank trucks and/or tank cars. The transport method would generally have been determined by distance and/or railroad trackage availability to the supplier. The tank cars, because of longer transit time and accompanying heat loss would usually have required steam heating through the car coils to reduce viscosity to make the material handleable. The material, after receipt and heating if required, would have been pumped to storage in tanks or piped, by gravity, to the tar cistern.

Coal tar is generally purchased and processed with a maximum water content of 2%. On settling in storage, some of this water (being lighter) may have separated to the surface and would be decanted (by visual observation) to the wastewater trenches.

The tar then would be pumped to stills. These were cylindrical vessels of about 5,000 gallons capacity, 7½ feet in diameter by 16' in length, set about 6' above the floor. Initially, into the 1950's, these were set and surrounded by fire brick and brick, with a fire box under the lower half. Fuel burners then fired into this firebox and the flue gases exited thru a flue to a common smoke stack. During and subsequent to the 1950's the firing method was changed so that the stills were fired internally thru 8 to 12" flue pipes thru the interior of the still which was insulated on the exterior, significantly improving the fuel efficiency. But also, these latter stills were not and could not be fired to produce pitch coke.

The tar in the still was heated by either of the above methods generating distillate and leaving pitch or coke in the still. The distillate was piped thru a vapor line to a condenser where it was liquified to a receiving tank, and to storage tanks. The distillate was separated into "cuts" or "fractions," the lighter materials evolving first, with the oils becoming progressively heavier as more were evolved. The differentiation of these cuts or fractions was accomplished by pumping from the receiving tank to specific and different storage tanks, based on specific gravity (or density) of the oil.

The first distillate evolved is "wet cut" or water, generally the 1-2% contained in the tar as received, and this distills when the tar in the still is at about 100°C. The second "cut" or light oil stream begins when the tar in the still is at about 160-180°C and the evolvement and distillate is generally continuous

thereafter, as the temperature of the material in the still is increased, with the cuts or separations being made, generally between light, medium and heavy oil. And, the number of cuts or amount of distillate removed would be determined or related to the "heavyness" of pitch or coke desired remaining in the still. The pitches would range from a road tar, only water and some light oil removed, thru roofing pitches, medium to hard pitches. At about 400°C, with about 55-60% of the tar removed as distillate, the pitch converts to pitch coke.

Early in the plant's history, into the 1930-1940's, there were markets, demands and needs for creosote oil, relatively little markets for pitch and some market for coke, so that distribution was most economic.

In and after the 1950's a market developed to the aluminum for hard pitch, which made coke production uneconomical.

During the 1920's and 30's there was a demand and market for tar acids and naphthalene. The by-products operation was built and operated to extract crude fractions of these materials from light oil, those crude fractions were then sent to other Reilly plants for refining.

The by-products operation would have involved the addition of sodium hydroxide solution to light oil, reacting the tar acids to form a sodium cresylate solution which was separated by gravity from the acid free light oil. The sodium cresylate solution would have been treated with sulfuric acid solution, separating by gravity into sodium sulphate solution and crude tar acid.

The acid free oils would have been chilled and allowed to cool; crude naphthalene salts would form and settle out. The drained, acid and naphthalene extracted oils would be returned for blending into creosote.

The by-products operation became uneconomical and was discontinued in 1930-40's.

During the 1920's and 30's, some water gas tars were being produced and purchased by Reilly. These are generally similar to coal tars except for being lighter, containing more distillate. Apparently the plant operated a "Unit #16", a still with auxiliary heating, intended to thermally "crack" the oils into higher boiling products, and to produce more creosote oil and/or pitch or coke. Water gas tar production declined over the years as natural gas became more available, and the belief is that it was phased out by the 1950's.

- C. F. Lesher

INTERROGATORY NO. 31:

For each and every process, identify all the equipment in the process and include for each piece of equipment the following:

- (a) The period of operation. If the equipment was replaced, repaired, or removed from use, state the dates and the reasons for the replacement, repair or removal from use;
- (b) The purpose and function of the equipment;
- (c) Identity (including make and model) of equipment and its operating parameters, including capacities, operating temperatures, pressure and the rated horsepower.

Response to Interrogatory No. 31:

(a) See Response to Interrogatory No. 16 and
Appendices B, C, D, and E. Changes in
equipment were due to changes in market
conditions and to technological changes and
advances.

- (b) The purpose of the tar refinery equipment was the separation of tar into various cuts controlled by the boiling range of each cut. The tar was distilled, condensed, and collected in receivers, and the different cuts were pumped from the receivers to the oil storage tanks. The residue in the stills was made into coke or any of the various pitches. The purpose of the timber creosoting operation was to preserve the wood from attack by low forms of plant life, insects, and marine borers.
- (c) The equipment used in our plant was similar to that used in other plants in the industry. Some was adapted to fit particular needs. This was true of stills, condensers, receivers, creosoting cylinders, incising machine, pitch bays, etc.
 Manufactured equipment not so adapted included items such as boilers, feed water heaters, cranes, adzing and boring machine, air compressors, saws, crushers, etc. See also Response to Interrogatory No. 16 and Appendix A.

- R. J. Hennessy

INTERROGATORY NO. 32:

Provide the chemical composition of all fractions produced in the coal tar refining processes, including but not limited to the chemical composition of the wet cut, creosote and pitch. For each fraction produced, state the total amount (by volume and weight), on a calendar year basis, of each fraction.

Response to Interrogatory No. 32: The fractions are mixtures of aromatic organic compounds, specified and differentiated by physical tests, i.e., boiling range, specific gravity, softening point, etc.

No data is available as to annual amounts.

- C. F. Lesher

INTERROGATORY NO. 33:

Identify all tests of the fractions produced in the coal tar refining processes at the Site, including but not limited to the wet cut, creosote and pitch.

Response to Interrogatory No. 33:

ASTM D 61 Test for Softening Point of Pitch

ASTM D 70 & D 71 Test for Specific Gravity of Pitch

ASTM D 2319-66 Test for Softening Point of Pitch

ASTM D 2317-66 Benzene Insoluble of Pitch

ASTM D 2318-66 Quinoline Insoluble of Pitch

ASTM D 2415-66 Ash Content of Pitch

ASTM D 2569-69 Distillation of Pitch

AWPA Standard Method for Analysis of Creosote

- W. Justin

INTERROGATORY NO. 34:

Describe in detail the process by which condenser water was used to liquify creosote oil and the other products of the refining processes. Include the following;

- (a) The source of the water;
- (b) How water was cooled, including the use of cooling ponds or cooling towers;
- (c) How make-up water was added to the process;
- (d) Detailed description of the disposal of the water.

Response to Interrogatory No. 34: Tar was heated in stills (direct fired) and the vapors were passed through a condenser consisting of a pipe coil in a pan of water. This cooled the vapors to their boiling point at which time they condensed and the oil was collected in receivers.

- (a) The source of water was wells or city water.
 - (b) The water was cooled by returning it to a cooling pond.

- (c) Make up water was added to the pond when the level became low. As hot water (170-175°F) was returned to the pond, evaporation was accelerated.
- (d) Disposal of water was by evaporation from the pond.
 - R. J. Hennessy

INTERROGATORY NO. 35:

State whether any creosote or other fraction or any other chemical or substance, ever mixed with the condenser water used in the refining processes, and if so, state the following:

- (a) The date of the occurrence;
- (b) How the mixing occurred;
- (c) Identify the specific process and the location in the process where the mixing occurred;
- (d) The total amount (by volume and weight) of the substance mixed with the condenser water, in addition to the total volume of the condenser water;
- (e) Describe how the substances were removed from the water and how and where the substances were disposed of.

Response to Interrogatory No. 35: The condensers were essentially a pipe coil immersed in a box of water. The piping was continuous from the still, through the vapor line and condenser coils into the receiving tank. We have no data concerning leaks in the piping.

- C. F. Lesher

INTERROGATORY NO. 36:

State whether there were any safeguards to prevent the disposal of the products or wastes of the refining process, and if so, identify the safeguards used to prevent the disposal of the products.

Response to Interrogatory No. 36: See Response to Interrogatory No. 20.

- C. F. Lesher

INTERROGATORY NO. 37:

State whether there was any procedure or equipment used to detect or determine the disposal of the products of the refining process, and if so, identify the procedure and/or equipment used to detect or determine the disposal of the products.

Response to Interrogatory No. 37: See Response to

Interrogatory No. 24.

- C. F. Lesher

INTERROGATORY NO. 38:

State whether there was any disposal of the products of the refining processes, including but not limited to wet cut, creosote and wet pitch, and if so, state the following for each disposal incident:

- (a) The date of such disposal;
- (b) How disposal occurred;
- (c) Identify the location of the disposal, including reference to any wells, ponds, basins, ditches and trenches;
- (d) Identify the equipment, if any, used to accomplish the disposal;
- (e) The total amount (by volume and weight) of the product disposed of;
- (f) The identity of any governmental entity to whom the disposal was reported, the date and manner of such notification and the identity of the official so notified;
- (g) The details of clean-up or recovery efforts, if any;
- (h) The total amount of the product recovered and its ultimate disposal;
- (i) The identity of the persons with knowledge of the facts of any such incident.

Response to Interrogatory No. 38: We are not aware of any disposal except that separated water from the wet cut may have been drained into and through the wastewater disposal system.

- C. F. Lesher

INTERROGATORY NO. 39:

Describe in detail any further processing of the products of the coal tar refining processes at the Site,

including all the distilled fractions and the pitch. Include a description of all the equipment and facilities used in such processes in the detail required in Interrogatory No. 30. Also include the chemical composition of all such products and the total amount produced (by volume and weight) on a calendar year basis. Include the chemical composition of any additional materials used in the processes.

Response to Interrogatory No. 39: No further processing was done that was not referred to in the Response to Interrogatory No. 30.

- C. F. Lesher

STORAGE AND TRANSPORTATION OF THE PRODUCTS OF THE COAL TAR REFINING PROCESSES

INTERROGATORY NO. 40:

Describe in detail the storage of the products from the coal tar refining process, including but not limited to the wastes. Include the date and the nature and reason for any change(s) in storage. Identify the precise location of storage and the types of containers used, specify their capacity, and describe their design and construction. Specify which container(s) was used for each product. Provide a description of the concrete flexicore supporting the pitch bays, including the design of the concrete flexicore, the materials used to construct the flexicore, its period of use, including the condition of the flexicore throughout the years of use.

Response to Interrogatory No. 40: See Responses to Interrogatories Nos. 20 and 30.

Steel pitch bays were supported by prestressed concrete beams resting on concrete block walls. The two bays inside the refinery had Flexicore units which were hollow cast with voids running lengthwise and were fabricated by a licensee of the Flexicore Co., Inc., Dayton, Ohio. The bay located in the pole barn had solid prestressed concrete beams cast in Minneapolis.

These bays were used from the time they were built in 1955 until the production of electrode pitch was discontinued in 1971.

Most of the prestressed precast concrete beams remained in good condition but some of the Flexicores

showed gradual deterioration where they rested on the concrete walls. These were repaired by supporting them alongside the walls by ties resting on the concrete footing.

The bays were in good condition when the plant was dismantled. Material to be stored was moved in by lift truck and stored on the bays until the plant was sold and shut down.

- R. J. Hennessy

INTERROGATORY NO. 41:

Describe in detail how the products of the coal tar refining process, including wastes, were moved from the storage area to the area of the wood preserving processes. Include the date, nature and reason for any change(s) in the method of movement from storage to the area of the wood preserving processes. Specify the distance between the area of storage and the area where the wood preserving processes were located.

Response to Interrogatory No. 41: All liquid materials from the coal tar refining process were moved to the area of wood preserving processes through pressure piping. The distance was approximately six hundred (600) feet.

- R. J. Hennessy

INTERROGATORY NO. 42:

Describe in detail how the products of the coal tar refining process, including wastes, were moved from the storage area to areas other than the area of the wood preserving processes, such as for use in other processes on the Site, for disposal on the Site, or for sale or disposal off the Site, or otherwise. Include the date, nature and reason for any change(s) in the method of movement of such coal tar refining products from storage. Specify the distance between the area of storage and the area(s) to which the products were moved.

Response to Interrogatory No. 42: Products of the coal tar refining process were generally moved through pipelines. This method was used from the origin of the plant.

- R. Polack

NO. 44

e wheth isposal ess, in ts were afeguar

terroge

No. 20.

- R. Po

NO. 45:

whethe to det coal as the

errogat

isposa

. 24.

C. F.

. 46:

hether coal tage or dif s

date

disp

locat

ls, p

ntify mplis

total

coal

ident

er of

he of

etai

У;

otal sal:

INTERROGATORY NO. 43:

State whether pipes were used, in whole or in part, to move the products of the coal tar refining process, and if so, state the following for each of the products:

- (a) When pipes were used;
- (b) The length and diameter of the pipes;
- (c) The material used to construct the pipes;
- (d) The location of the pipes;
- (e) Whether the pipes were heated, and if so, by what method and to what temperature;
- (f) Whether the pipes were located above or below the surface of the ground, including the distance above or below the surface of the ground;
- (g) The type, construction and condition of trench(es) or casing(s) for the pipes;
- (h) Whether the pipes, trench(es) or casing(s) were subject to periodic flooding. If so, state when the flooding occurred, as well as the duration and the effects of any flooding, including whether there was any leakage into the lines;
- (i) Whether the pipes, trench(es) or casing(s) were affected by freezing conditions. If so, state when the freezing occurred, as well as the duration and the effects of any such freezing;
- (j) Whether the pipes, trench(es) or casing(s) were investigated, tested or evaluated, by Reilly or anyone else, and if so, who made the investigation, test or evaluation, what procedure was followed and how often was it done, and what results were obtained;
- (k) Identify any breaks or ruptures in the pipes and the date(s) of such occurrence(s);
- (1) Whether the pipes or casing(s) were replaced or repaired, or the trenches were repaired, and if so, the dates and the reasons for the replacement or repair.

Response to Interrogatory No. 43: See Response to Interrogatory No. 27.

- R. Polack

INTERROGATORY NO. 44:

State whether there were any safeguards, to prevent the disposal of the products of the coal tar refining process, including wastes either from storage or as the products were moved from storage, and if so identify the safeguards used to prevent disposal.

Response to Interrogatory No. 44: See Response to

Interrogatory No. 20.

- R. Polack

INTERROGATORY NO. 45:

State whether there was any procedure or any equipment used to detect or determine the disposal of the products of the coal tar refining process including wastes from storage or as they were moved from storage, and if so, identify the procedure or equipment used to detect or determine the disposal of the products of the coal tar refining process.

Response to Interrogatory No. 45: See Response to

Interrogatory No. 24.

- C. F. Lesher

INTERROGATORY NO. 46:

State whether there was any disposal of the products of the coal tar refining process, including wastes from storage or from the movement of the products from storage, and if so, state the following for each disposal incident:

- (a) The date of such disposal;
- (b) How disposal occurred;
- (c) The location of the disposal, including any wells, ponds, basins, ditches and trenches;
- (d) Identify the equipment, if any, used to accomplish the disposal;
- (e) The total amount (by volume and weight) of the coal disposed of;
- (f) The identity of any governmental entity to whom the disposal was reported, the date and manner of such notification and the identity of the official so notified;
- (g) The details of clean-up or recovery efforts, if any;
- (h) The total amount recovered and its ultimate disposal;

(i) The identity of the persons with knowledge of the facts of any such incident.

Response to Interrogatory No. 46: See Response to Interrogatory No. 18.

- C. F. Lesher

WOOD PRESERVING PROCESSES

INTERROGATORY NO. 47:

Describe in detail all the processes at the Site to preserve wood. Include the date, nature and reason for any changes in the processes.

Response to Interrogatory No. 47: The basic process did not change throughout the operation of the plant.

Untreated lumber, mostly cross ties, were brought into the plant and stacked in an area near the treating and woodworking machinery. White ties were usually stacked for seasoning northeast of the treating installation, and untreated poles and bridge timbers to the west.

Appreciably less area was used for the storage of treated ties than white ties as most of them were loaded into open top cars for outbound shipment immediately or a short time after treatment. Two areas were set aside for black ties and timber to be stored after treatment. One was at the extreme north side of the plant, and the other was at the extreme west side, both of which were remote from woodworking machinery and the treating cylinders.

After stacking for seasoning, an anti-splitting device was applied to both ends of each tie. After seasoning, the ties were machined (adzed and bored).

Fir timbers to be treated were incised to permit penetration of the preservative.

After machining, ties, timbers, poles, etc. were loaded on trams and pushed into one of three treating cylinders.

The pressure treatment process was used at St. Louis Park. Treating conditions were controlled so retention and penetration were varied to meet the requirements of service. Various pressure processes differ in details, but the general method of handling material is the same in all cases.

Three treating cylinders, 6 ft. diameter x 176 ft. long, were used at St. Louis Park. Each cylinder held 21 or less trams of ties depending on their length. Seven hundred and fifty-six 7 x 8 sawed ties could be treated per charge.

After charging, the cylinder was filled with hot preservative solution and then subjected to a vacuum.

Vacuum evaporates water from the wood at a lower temperature, thereby preventing damage to the timber.

ť

r,

Ρį

5€

Εų

h,

1

e s

a p

er

The vacuum is released, and pressure is applied to the hot preservative solution, 150 to 200 p.s.i., and is held until the specified absorption is obtained. Oil is then drained and a vacuum drawn to remove excess oil from the wood.

After treatment, the treated timber on the trams is pulled out of the cylinder into the yard for loading in open-top railroad cars for shipment or stacking in that portion of the yard set aside for the storage of treated ties.

The treating plant was serviced by six storage tanks, four approximately 47,000 gallons, one 35,000 gallons, and one 20,000 gallons. These tanks were used for the storage of preservative, the mixing of solutions of creosote and tar, and oil recovery. Oil escaping from the cylinder when the door was opened after treatment was

caught in a concrete sump and pumped to the settling tank for oil recovery.

Thirteen standard guage tracks, most of which were parallel to each other and spaced 116 ft. apart in the storage yard, were provided for the effective operation of cranes and the movement of railroad cars bringing in loads of timber and to pick up outgoing shipments of treated material. Eight narrow guage (24") tram tracks were located between the standard guage tracks so that the trams could be loaded directly from the seasoning stacks and pulled to the woodworking machines or to the creosoting cylinder.

The retention of oil in bridge timbers is usually 8 to 12 lbs. per cubic foot of wood, and for ties it is usually 6 to 12 lbs. The precise amount of oil was varied for different species, proportions of sapwood, and conditions of use. Piles to be used in salt water were creosoted to refusal with retentions of 20 to 25 lbs. per cubic foot in pine and 12 to 16 lbs. in Douglas fir.

- R. J. Hennessy

INTERROGATORY NO. 48:

For each and every process, identify all the equipment in the process and include for each piece of equipment the following:

- (a) The period of operation. If the equipment was replaced, repaired, or removed from use, state the dates and the reasons for the replacement, repair or removal from use;
- (b) The purpose and function of the equipment;
- (c) Identity (including make and model) of equipment and its operating parameters, including capacities, operating temperatures and pressures, and the rated horsepower.

Response to Interrogatory No. 48: See Response to Interrogatory No. 31.

- C. F. Lesher

INTERROGATORY NO. 49:

Describe in detail the steam cleaning of the cylinders used to impregnate wood, including the steam cleaning of the cylinders and whether the steam was part of an open or closed system. If an open system, include the following:

- (a) The period of operation;
- (b) The average volume of water used for each charge, as well as the average volume of water used each day;
- (c) A description of the disposal of the water used in the steam cleaning process;
- (d) Identification of any tests of the water disposed of.

If a closed system, include the following:

- (a) The period of operation;
- (b) The average volume of water used for each charge, as well as the average volume of water used in a day;
- (c) How any impurities or contaminants were removed from the processed water;
- (d) A description of the disposal of any impurities or contaminants from the processed water;
- (e) A description of the disposal of the water used in the steam cleaning process;
- (f) Identification of any tests of the water disposed of.

Response to Interrogatory No. 49: We are not aware the treating cylinders were steam cleaned.

- C. F. Lesher

INTERROGATORY NO. 50:

Provide the chemical composition of each of the substances, including but not limited to creosote, which were used to treat wood at the Site and state the period(s) when each substance was used.

Response to Interrogatory No. 50: The chemical composition is not definable. Creosote and creosote-coal tar solutions are mixtures of aromatic organic compounds, characterized by physical tests. The petroleum in

creosote-petroleum is similarly a mixture of mostly asephatic organic compounds characterized by physical tests. Zinc chloride was apparently used in earlier years, probably as a 2-3% solution.

- C. F. Lesher

INTERROGATORY NO. 51:

For each substance identified in Interrogatory No. 50 above, state the total amount (by volume and weight), on a calendar year basis, which was used in the treatment of wood.

Response to Interrogatory No. 51: Reilly has only the following data on creosote oil for the years 1951-71, which does not include petroleum supplied by the railroads.

Year	Gallons (1000)	Year	Gallons (1000)
1959	988	1966	1174
1960	1069	1967	1038
1961	1291	1968	1048
1962	1138	1969	1028
1963	1294	1970	1306
1964	1155	1971	936
1965	1226		

- C. F. Lesher

INTERROGATORY NO. 52:

On a calendar year basis, specify how many linear feet of wood were treated at the Site.

Response to Interrogatory No. 52: Reilly has only the following data for the years 1943-51.

<u>Year</u>	Cubic	feet	of	boow	(1,000)
1943			31	41	
1944			380	03	
1945			42	52	
1946			359	95	
1947			32	47	
1948			249	96	
1949			20.	14	
1950	•		19	51	
1951			14		

- C. F. Lesher

INTERROGATORY NO. 53:

State whether there were any safeguard to prevent disposal, during the course of the wood treating

processes, of any substances, including creosote, and if so, identify the safeguards used to prevent disposal of any substances during the course of the wood treating processes.

Response to Interrogatory No. 53: See Response to Interrogatory No. 20.

- C. F. Lesher

INTERROGATORY NO. 54:

State whether there was any procedure or equipment used to detect or determine the disposal, during the wood treating processes, of any substances, including creosote, and if so, identify the procedure or equipment used to detect or determine the disposal of any substances.

Response to Interrogatory No. 54: See Response to

Interrogatory No. 24.

- C. F. Lesher

INTERROGATORY NO. 55:

State whether there was any disposal, during the wood treating processes, of any substances, including but not limited to disposal of creosote, and if so, state the following for each disposal incident:

- (a) The date of such disposal;
- (b) How disposal occurred;
- (c) Identify the location of the disposal, including reference to any wells, ponds, basins, ditches and trenches;
- (d) Identify the equipment, if any, used to accomplish the disposal;
- (e) The total amount (by volume and weight)
 disposed of;
- (f) The identity of any governmental entity to whom the disposal was reported, the date and manner of such notification and the identity of the official so notified;
- (g) The details of clean-up or recovery efforts, if any;
- (h) The total amount recovered and its ultimate disposition;
- (i) The identity of the persons with knowledge of the facts of any such incident.

Response to Interrogatory No. 55: No data is available, except as noted in the Response to Interrogatory No. 66.

- C. F. Lesher

STORAGE OF TREATED WOOD

INTERROGATORY NO. 56:

Describe in detail the storage of treated wood at the Site. Identify where the storage yard was located. Include the date, nature and reason for any changes in the storage of treated wood.

Response to Interrogatory No. 56: Appreciably less area was used for the storage of treated ties than white ties as most of them were loaded into open top cars for outbound shipment immediately or a short time after treatment. Two areas were set aside for black ties and timber to be stored after treatment. One was on the extreme North side of the plant, and the other was at the extreme West side, both of which were remote from woodworking machinery and treating cylinders.

Timber was treated on orders from customers and there was no reason to store it for an extended time.

- R. J. Hennessy

INTERROGATORY NO. 57:

For each calendar year, specify how many feet of linear feet of treated wood were stored at the Site.

Response to Interrogatory No. 57: No data is available.

- C. F. Lesher

INTERROGATORY NO. 58:

State whether any of the treatment residue dripped from the wood onto the land surface, due to precipitation or other causes, and if so, state the total amount (by volume and weight) of the residue disposed of. Include a description of effects, if any, to include the treatment residues.

Response to Interrogatory No. 58: The loss of wood preservative solution from the stored impregnated wood would be almost entirely due to vaporization.

The drippings of excess preservative oil immediately after treatment and removal from the cylinder were caught in a concrete sump and pumped to a settling tank for recovery. There may have been minimal dripping of preservative oil from treated wood as it left the cylinder.

The following document, privileged as work product, is identified as relating to the above response: a memo dated 4-20-79 from R. J. Hennessy distributed to E. J. Schwartzbauer and W. J. Keppel.

- W. Roder

TRENCHES

INTERROGATORY NO. 59: State whether Reilly used trenches
at the Site, and if so state the following:

- (a) Where the trenches were located;
- (b) The purpose for using the trenches and whether the trenches were effective or ineffective for the stated purpose, with an explanation of how the trenches were effective or ineffective;
- (c) Description of the design of the trenches, including any cover and/or lining used for the trenches;
- (d) Whether the trenches have been filled and, if so, identify the material used to fill the trenches, the purpose for so doing, when it was done and the persons with knowledge of the facts of the event.

Response to Interrogatory No. 59:

- (a) The trenches were located to carry piping from the tank car unloading house to tanks 2 through 10, to the Refinery building, to the Byproducts building, and to the tank house.

 See document No. 10607.
- (b) Trenches were used because piping could be carried across roads and railroad tracks without overhead bridges or underground

culverts. Also, steam lines were routed through trenches keeping the piping warm to facilitate pumping. They were effective.

- (c) Walls and bottoms of trenches were concrete. Tops were creosoted timbers.
- (d) Some trenches were filled in from '68 to '70 by Paul White. Trenches on the South side of the refinery were ordered filled in by W. A. Justin in 1970 when frequent flooding from Louisiana Avenue made their continued use impractical. Trenches were filled with sand and gravel.
 - R. J. Hennessy

DIKES AND PONDING BASINS

INTERROGATORY NO. 60:

State whether Reilly used dikes and/or ponding basins at the Site, and if so, state the following:

- (a) The location where the dikes and ponding basins were located;
- (b) The purpose(s) for using dikes and ponding basins and whether they were effective or ineffective for the stated purpose(s), with an explanation of how the dikes or ponding basins were effective or ineffective;
- (c) Description of the design of the dikes and the ponding basins, including but not limited to any lining used for the ponding basins;
- (d) How and where the water was diverted from the dikes, and how and where water flowed from the ponding basins;

Response to Interrogatory No. 60: Reilly did not use dikes. There were no ponding basins other than the cooling water pond described in the Response to Interrogatory No. 34.

- R. J. Hennessy

WASTE TREATMENT

INTERROGATORY NO. 61:

State what knowledge Reilly had of the standards or criteria within the coal tar refining and the wood preserving industries for the testing and the treatment of wastes prior to disposal, what those standards or criteria were, the sources of that knowledge (including publications, conferences and other trade group activities), whether Reilly followed or observed such standards or criteria prior to disposal, and if so, what proce dures or facilities were used to meet the standards or criteria.

Response to Interrogatory No. 61: See document 302767.

- W. Justin

INTERROGATORY NO. 62:

State what knowledge Reilly had of any government standards (federal, state or local) for the testing and the treatment of wastes prior to disposal, what those standards were, whether Reilly followed or observed such standards prior to disposal, and if so, what procedures or facilities were used to meet the standards.

Response to Interrogatory No. 62: See document 302767.

- W. Justin

INTERROGATORY NO. 63:

Describe in detail any waste treatment processes at the Site, including but not limited to, straw filters, baffles and settling basins. Include in the answer the "pollution control device" as the term is used in paragraph 12 of Reilly's Answer to the Complaint; the "regular ground water system" as that term is used in the memorandum of March 3, 1955, number Stamped as No. 104117 and attached hereto as Attachment 2A; and any other procedure, facility, structure, system or device used by Reilly to treat waste or to control or prevent pollution. For each such waste treatment process, state the following:

- (a) When the process was initiated;
- (b) Identification of any internal procedures or guide lines used, considered or available for use in con sidering or determining which wastes to treat and how such treatment was to be provided;
- (c) Description of all segregable or divisible steps within each treatment process;
- (d) Length or duration of each step;
- (e) Physical state and chemical composition of waste at each step;

- (f) Nature of the transformation of or alternation to waste at each step;
- (g) Identity of each of Reilly's employees assigned to carry out or supervise each step;
- (h) Machinery used during each step; and the methods or procedures used for cleaning each piece of equipment;
- (i) Chemical composition of all chemicals utilized in each step, setting forth the purpose which each chemical was intended to serve;
- (j) Identity of each person who designed each step;
- (k) All modifications, alterations, or adjustments under taken by Reilly including the date, nature and reason of any such modification, alteration or adjustment.

Also include a description of the method and the location for the disposal of the straw filters, as well as a description of how and where the water flowed from the settling basins.

Response to Interrogatory No. 63: Industrial waste water was treated at the St. Louis Park plant by passing it through a 51,000 gallon settling basin where heavy oils settled to the bottom and light oils rose to the top. These were collected and pumped back to working tanks at the treating plant.

A straw filter was provided down stream to collect the iridescent oil by absorption. There were two baskets so they could be changed without interrupting filtration or absorption.

The regular ground water system used in the memorandum of March 3, 1955, stamped as No. 104117, referred to the concrete trench and tile sewer from the vicinity of tank #10 to the sump for the settling basin influent, the settling basin, the effluent sewer, and the straw filter.

"Polution control device" is the equipment mentioned in the preceding paragraph.

- (a) The oil-water separator was installed in 1940-41, and the straw filter was added in 1951.
- (b) See Response to Interrogatory No. 10.
- (c) Industrial waste water was collected at various sources and flowed through tiles to a sump where it was pumped up into the separator.
- (d) The separator was designed to handle 800 GPM of water with a settling time of 1 hour. Tests showed excellent settling in 1/2 hour. At normal flows the actual settling time was 4+ hours.
- (e) The waste was water contaminated with coal tar oils.
- (f) The settling basin recovered the oils, most of which sank to the bottom, and returned them to process. Iridescent oil floating on the surface was absorbed by the straw filter.
- (g) Plant Manager would have had overall responsibility.
- (h) The light and heavy oil layers were pumped back to process. Centrifugal pump for light oil-positive displacement for heavy oil.
- (i) No chemicals were used. Physical process.
- (j) The waste water separator and straw filter were designed by M. R. Horner and R. J. Hennessy.

(k) None except maintenance.

As to water flow, see Response to Interrogatory No. 6.

- R. J. Hennessy

INTERROGATORY NO. 64:

With regard to Reilly's allegation of
". . . contributory negligence on the part of Plaintiff by
its unreasonable and careless discharge of collected
surface waters on Defendant's property which floods the
pollution control device of the Defendant makes compliance
impossible," as that allegation appears in paragraph 12 of
Reilly's Answer to the Complaint filed by the State of
Minnesota, state the following:

- (a) Definition of the term "collected surface waters" and how, where and by whom such water was collected;
- (b) Identification and location of the "pollution control device", and when and how the device was operated and for what purpose(s);
- (c) Definition of "compliance" and reference to the law, ordinance or regulations with which compliance was sought;
- (d) The dates when the pollution control device was flooded and the volume or depth of water, the efforts of Reilly to repair or redesign the device or otherwise remedy the situation, the consequences of the flooding of the device, and the date and nature of notice given to any governmental entity that the pollution control device was flooded and that compliance was impossible;
- (e) All facts which support the allegation of "contributory negligence on the part of Plaintiff";
- (f) Identification of all persons with knowledge of the facts.

Response to Interrogatory No. 64:

(a) Surface waters would be those collected on the streets of St. Louis Park to the north and northeast of the plant and due to natural runoff and inability of city storm sewers to handle the volume it was channeled onto Reilly's property from Louisiana Street. See document 100742.

- (b) API separator located southwest of maintenance shop. Used to separate creosote oil and water.
- (c) The word "compliance" was not used in the sense of compliance with any specific legal requirement. It was used to indicate that the flooding interfered with the normal operation of the device.
- (d) Dates are not available, however any normal to heavy thunderstorm or rapid melting of snow cover could flood plant and overload the separator. See, e.g., documents 100742, 101249, 104140 and the "Chronology of Republic Creosote Property," prepared by the City of St. Louis Park, Minnesota, dated October 30, 1974 ("SLP Chronology").
- (e) See, e.g., documents 100742, 201152, the SLP Chronology, and a Minnesota Pollution Control Agency "Office Memorandum" by Michael R. Lutz dated April 20, 1970.
- (f) Numerous Reilly employees including Finch and Justin and governmental employees including McPhee, Lutz, and Koonce.
 - W. Justin

SULFURIC ACID DISPOSAL

INTERROGATORY NO. 65:

Describe in detail the events surrounding the disposal of sulfuric acid, referenced in memoranda of August 14, 1964, and September 15, 1964, number stamped as 104326 and 104327 and attached hereto as Attachments Nos. 1A and 1B. In the description, include the following:

(a) Identification of the tank referenced in the memoranda, a description of the use of this sulfuric acid in Reilly's process and an identification of any material or substances which contaminated this sulfuric acid or necessitated the disposal of the acid;

- (b) Identification of the date and location of disposal, for both the sulfuric acid and the sediment from the tank;
- (c) Description of the procedure followed for the disposal of the sulfuric acid and the sediment from the tank;
- (d) Description of the design of the trench(es) used for the disposal of the sulfuric acid and the sediment from the tank, including any lining or cover for the trench(es);
- (e) The amount and concentration of the sulfuric acid and the amount and the chemical composition of the sediment material and all other chemicals, materials and substances disposed of in this event;
- (f) Identification of all officers and employees who authorized the disposal, those who performed the disposal, and any other persons with knowledge of the facts of the event(s);
- (g) Whether Reilly made application and/or obtained any license, permit or approval from any agency of government to do the disposal and if so, an identification of the agency and the approval given;
- (h) Whether any governmental agency was informed of the disposal, and if so, the date and nature of the notice and the identity of the official(s) notified.

Response to Interrogatory No. 65: From subject and date stamps, we believe the memorandum numbered 104326 should have been dated October 14, 1964.

a) Based on early tank lists, the acid probably was in Tank I, 8400 gallons, located in the "By-products" area. The sulfuric acid had been used, from approximately the 1920's to the 1940's, in the by-products operation to extract crude tar acid from creosote light oil. By 1964, the material seemed to be surplus with no forseeable use and the quantity was so small as to be valueless.

- (b) Per the memoranda the disposition evidently took place in the Fall of 1964.
- (c) The procedure is assumed to be as suggested in the memorandum numbered 104327.
- (d) The trenches are described in the memorandum numbered 104327 and the Response to Interrogatory No. 59.
- (e) The sulfuric acid quantity was probably the noted 16 tons.
- (f) The disposition was arranged between C. F. Lesher and R. L. Finch, plant manager. The employees performing the work are not now known.
- (g) We were unaware of any governmental approval requirement.
- (h) Same as (g).
 - C. F. Lesher

ZINC CHLORIDE DISPOSAL

INTERROGATORY NO. 66:

Describe in detail the disposal of zinc chloride, referenced in the memorandum of March 3, 1955, number stamped as 104117 through 104120 and attached hereto as Attachments No. 2A through 2D. In the description, include the following:

- (a) Identification of the tank referenced in the memorandum, description of the use of this zinc chloride in Reilly's process and identification of any material or substances which contaminated this zinc chloride or necessitated the disposal of this zinc chloride;
- (b) The reason for the disposal of this zinc chloride;
- (c) The date and location of disposal for both the zinc chloride and any sediment from the tank;
- (d) Description of the procedure followed for the disposal of the zinc chloride and any sediment from the tank;

- (e) Whether disposal was made to a trench, and if so, a description of the design of the trench(es) used for the disposal of the zinc chloride and any sediment from the tank, including any lining or cover for the trench(es);
- (f) The amount and concentration of the zinc chloride and the amount and the chemical composition of any sediment from the tank and all other chemicals, materials and substances disposed of in this event;
- (g) Identification of all officers and employees who authorized the disposal, those who performed the disposal, and any other persons with knowledge of the facts of the event(s);
- (h) Whether Reilly made application and/or obtained any license, permit or approval from any agency of government to do the disposal and if so, an identification the agency and the approval given;
- (i) Whether any governmental agency was informed of the disposal, and if so, the date and nature of the notice and the identity of the official(s) notified;
- (j) Identification and location of "regular ground water system" as that term is used in the memorandum of March 3, 1955, number stamped as No. 104117 and attached hereto as Attachment 2A, and when, and how the system was operated;

Response to Interrogatory No. 66:

- (a) Tank No. 10, with 50,000 gallons capacity was located Northwest within the major tankage area Southwest of the Refinery building. ZnCL₂ solution (2-3%) had been used in the 1920's as a wood preservative and had begun to be phased out in the 1930's due to its lack of efficacy in comparision to creosote oil and the increasing availability of creosote oil.
- (b) In the 1950's, since the material was surplus, the quantity relatively small, the

- resale value negligible and storage capacity needed for coal tar, it was disposed of.
- (c) Per the memorandum numbered 104117, we would assume that it was slowly drained into a trench and thence thru the normal wastewater/run off drainage system.
- (d) See (c).
- (e) See (c).
- (f) Not known.
- (g) Per noted direction from F. J. Mootz toH. L. Holstrom, plant manager. Employeeswho performed the disposal are not now known.
- (h) Unaware of any governmental approval requirement.
- (i) See (h).
- (j) See Responses to Interrogatories Nos. 59 and63.
 - C. F. Lesher

DISPOSAL OF CONTAINERS

INTERROGATORY NO. 67:

State whether any drums, vessels, or other containers holding waste were disposed of at the Site and/or Ponding Area, and if so, state the following:

- (a) The number of drums, vessels, or other containers which were disposed of;
- (b) Date(s) of such disposal;
- (c) The exact locations within the Site or the Ponding Area of all drums, vessels, or other containers;
- (d) The chemical composition of the wastes contained in all drums, vessels, or other containers;
- (e) The current condition and disposition of such drums, vessles, or other containers.

Response to Interrogatory No. 67: We are not aware of any such disposal.

- C. F. Lesher

DISPOSAL OF OTHER WASTES

INTERROGATORY NO. 68:

State whether wastes, other than those relating to the coal tar refining and wood preserving done by Reilly at the Site, have been disposed of at the Site, and if so, state the following:

- (a) Exact locations used for such disposal;
- (b) Dates of such disposal;
- (c) Chemical composition of the wastes.

Response to Interrogatory No. 68: We are not aware of any such disposal.

- C. F. Lesher

STUDIES AND REPORTS

INTERROGATORY NO. 69:

State whether any studies, reports or other documents were prepared during the period when Reilly was conducting activities at the Site which indicate that the then-utilized techniques for the disposal of waste at the Site or in the Ponding Area could cause adverse effects on the surrounding environment including soil contamination and pollution of the groundwater and surface water, and if so, identify such studies, reports or other documents and describe their contents, identify all employees or officers of Reilly who knew of the existence of such studies, reports or other documents and the date on which each employee or officer became aware of them.

Response to Interrogatory No. 69: We are aware of none.

- C. F. Lesher

INTERROGATORY NO. 70:

Has Reilly or any of its consultants, experts or subcontractors produced, at any time, any scientific studies and reports, data, internal corporate reports, corporate documents, other reports and documents, correspondence, or other written memoranda or data compilation of any type (either now or in the past) which discuss the soil contamination, water pollution, acute and/or chronic health effects, effects on vegetation or other environmental effects or potential effects related to disposal of waste at the Site and/or the Ponding Area, and if so, identify such documents and describe their contents.

Response to Interrogatory No. 70: None, other than documents already produced and compilations which are privileged as attorney work product.

- R. Polack

TESTS, INSPECTIONS, INVESTIGATIONS, OBSERVATIONS AND MEASUREMENTS

INTERROGATORY NO. 71:

State whether any sampling and analysis, inspections, investigations, observations or measurements of groundwater and/or surface water have been conducted, at any time, at or within a five mile radius of the Site by or on behalf of Reilly or its predecessors, and if so, state:

- (a) Purpose of collecting each sample or making each inspection, investigation, observation or measurement;
- (b) Exact location, time and date for each sample collected and each inspection, investigation, observation or measurement taken;
- (c) Conditions under which each sample, inspection, investigation, observation or measurement was performed, including but not limited to, ambient temperature, humidity, lighting conditions, location, dimensions, and other conditions relevant to the work performed;
- (d) Identify the person(s) performing the work done and the specific procedures used in collecting each sample and making each inspection, investigation, observation or measurement;
- (e) Identify the person(s) doing the analysis and the analytic procedures followed;
- (f) Criteria used in determining whether each sample, inspection, investigation, observation or measure ment should be repeated, including any water quality standards that were used for comparison with the analytical results;
- (g) Any governmental entity to whom the analysis, inspection, investigation, observation or measure ment was reported and the date and manner of such notification.

Response to Interrogatory No. 71: The following document references are given in response to Interrogatory No. 71.

	Surface or
Ground Water	Effluent Water
302959	302966
302961	302967 ·
302960	302994
302965	302996
302966	303004
302967	303015
303099	303194
302975	303185
.302970	303186
302973	303024 303183
302974 303047	303183
303047	303181
100019	303140
100690	303043
302870	303042
	303064
	303069
	302474
	302472
	302473
	302871
	302870
	302471 302470
	302806
	302455
	302454
•	302424
	302468
	302456
	302457
	303927
	304132
	302822
	302469
	302807
	303924

- W. Roder

INTERROGATORY NO. 72:

State whether any sampling and analysis, inspections, investigations, observations or measurements of domestic or industrial water supplies have been conducted, at any time, at or within five mile radius of the Site by or on behalf of Reilly or its predecessors, and if so, state:

- (a) Purpose of collecting each sample or making each inspection, investigation, observation or measurement;
- (b) Exact location, time and date for each sample collected and each inspection, investigation, observation or measurement taken;

(c) Conditions under which each sample, inspection, investigation, observation or measurement was performed, including but not limited to, ambient temperature, humidity, lighting conditions, location, dimensions, and other conditions relevant to the work performed;

- (d) Identify the person(s) performing the work done and the specific procedures used in collecting each sample and making each inspection, investigation, observation or measurement;
- (e) Identify the person(s) doing the analysis and the analytic procedures followed;
- (f) Criteria used in determining whether each sample, inspection, investigation, observation or measure ment should be repeated, including any water quality standards that were used for comparison with the analytical results;
- (g) Any governmental entity to whom the analysis, inspection, investigation, observation or measure ment was reported and the date and manner of such notification.

Response to Interrogatory No. 72: The following document references are given in answer to Interrogatory No. 72.

The groundwater references given in the Response to Interrogatory No. 71 pertain to the wells on the site.

Wells off the Site: 302964, 302985

- W. Roder

INTERROGATORY NO. 73:

State whether any sampling and analysis, inspections, investigations, observations or measurements of soil and/or geology have been conducted at any time, at or within a five mile radius of the Site by or on behalf of Reilly or its predecessors, and if so, state:

- (a) Purpose of collecting each sample or making each inspection, investigation, observation or measurement;
- (b) Exact location, time and date for each sample collected and each inspection, investigation, observation or measurement taken;
- (c) Conditions under which each sample, inspection, investigation, observation or measurement was performed, including but not limited to, ambient temperature, humidity,

lighting conditions, location, dimensions, and other conditions relevant to the work performed;

- (d) Identity of the person(s) performing the work done and the specific procedures used in collecting each sample and making each inspection, investigation, observation or measurement;
- (e) Identity of the person(s) doing the analysis and the analytic procedures followed;
- (f) Criteria used in determining whether each sample, inspection, investigation, observation or measure ment should be repeated, including any water quality standards that were used for comparison with the analytical results;
- (g) Any governmental entity to whom the analysis, inspection, investigation, observation or measure ment was reported and the date and manner of such notification.

Response to Interrogatory No. 73: See documents 102452, 303928, 302526, and 302525.

- W. Justin

INTERROGATORY NO. 74:

State whether any tests, inspections, investigations, observations or measurements by or on behalf of Reilly or its predecessors relating to the condition or quality of groundwater, surface water, water supplies, soil contamination or geology, on or within five miles of the Site, have been discontinued before completion, and if so, list:

- (a) Each test, inspection investigation, observation, or measurement which was discontinued;
- (b) The date(s) of such discontinuance;
- (c) The reason or reasons for the discontinuance; and,
- (d) The identity of the person or persons making the decision to discontinue.

Response to Interrogatory No. 74: None.

- R. Polack

COMPLAINTS

INTERROGATORY NO. 75:

State whether any person, at any time, notified Reilly and complained about or expressed concern about

surface water pollution, groundwater pollution, well closure, abandonment, or contamination (including the odor, taste or appearance of water), soil contamination, or other environmental pollution at the Site or within five miles of the Site, and if so, state for each occurance:

- (a) The name of each person who made a complaint or expressed concern;
- (b) The date of each complaint or expression of concern;
- (c) The substance and contents of each such
 complaint;
- (d) Whether Reilly responded to such complaint or expression of concern, and if so, identify the person(s) who responded and summarize the response;
- (e) Identify any written reposrts or documents which were prepared in response to any complaint or expression of concern.

Response to Interrogatory No. 75: Your files contain all complaints from Governmental Agencies that we are aware of. In addition, the following documents are referenced which contain information you request.

302977, 303088, 302956, 302955, 302957, 302983, 302959, 302967, 302961, 302960, 302965, 302964, 302966, 303099, 302969, 302975, 302970, 302973, 302974, 302972, 303647, 302982, 302983, 302984, 302994, 303150, 302993, 302996, 303004, 303201, 303200, 303003, 303014, 303199, 303198, 303012, 303015, 303194, 303016, 303196, 303019, 303020, 303190, 303185, 303024, 303025, 303183, 303027, 303023, 303181, 303029, 303033, 303032, 303035, 303034, 303036, 303035, 303039, 303038, 303052, 303051, 303117, 303055, 303060, 303062, 303063, 303064, 303178, 303066, 101361, 303070, 303072, 303074, 100964, 100817, 100814, 104146, 304224, 100693, 104240, 304204, 303360, 104274, 104273, 104272, 104270, 104271, 302075, 100578, 104265, 100574, 10465, 303430, 100470, 301375, 304450, 304451, 100418, 104309, 104308, 302920, 104306, 201114, 302844, 302239,

200998, 201005, 302809, 302810, 302113, 302210, 302157, 302150, 301782, 302213, 303340, 302144, 301844, 302491, 302500, 302504, 302523, 302559, 301802, 302739, 301999, 100097, 301808, 302767, 100094, 100092, 303828, 301651, 300966, 301116, 301107, 301086, 301082, 301081. See also a report dated 12/13/34 by J. F. McCarthy, apprently sent to the City of St. Louis Park.

- W. Justin

LEACHATE

INTERROGATORY NO. 76:

State whether leachate emanating from disposal at the Site has, at any time, entered into the groundwater within the boun daries of the Site and/or within five miles of the Site, and if so, state:

- (a) The point at which the leachate entered into the groundwater;
- (b) The chemical composition of all such leachate, including the results of any analyses of leachate that have been undertaken by or on behalf of Reilly;
- (c) The date and the manner in which Reilly first became aware that leachate was entering the ground water, including an identification of the person who discovered that leachate was entering the groundwater and the person who reported the problem;
- (d) The actions taken by Reilly upon learning of the entry of leachate into the groundwater, including action taken to remedy the situation;
- (e) Whether Reilly anticipated the possibility that leachate could enter the groundwater;
- (f) The identity of all employees or officers of Reilly who knew that leachate from the Site was entering the groundwater and the date on which each employee or officer became aware of this fact.

Response to Interrogatory No. 76: We have no knowledge of such emanation.

- C. F. Lesher

INTERROGATORY NO. 77:

State whether leachate emanating from disposal at the Site has, at any time, entered wells at the Site, or within five miles of the Site, and if so, state for each well:

- (a) The precise location of the well, and the name, if any, used to describe the well;
- (b) The disposal incident(s) that produced the leachate;
- (c) The chemical composition of the leachate found in the well, including the results of any analyses of leachate in such wells that have been undertaken by or on behalf of Reilly;
- (d) The date and the manner in which Reilly first became aware that leachate was entering the wells, including an identification of the person who discovered that leachate was entering the wells and the person who reported the problem;
- (e) The actions taken by Reilly upon learning of the entry of leachate into the well, including the action, if any, taken to remedy the situation;
- (f) Whether Reilly anticipated the possibility that leachate could enter the wells;
- (g) Whether Reilly is aware of any medical problems in humans or animals as a result of leachate entering the well, and if so, state the nature of these problems;
- (h) Whether the well has been closed or abandoned, and if so, when that was done; and
- (i) The identify of all employees or officers of Reilly who knew that leachate from the Site was entering the wells and the date which each employee or officer became aware of this fact.

Response to Interrogatory No. 77: We have no knowledge of such emanation.

- C. F. Lesher

INTERROGATORY NO. 78:

If the answer to Interrogatory No. 76 above, and/or the answer to Interrogatory No. 77 above, is negative, state each and every fact upon which you rely in answering Interrogatory No. 76 and/or Interrogatory No. 77.

Response to Interrogatory No. 78: We have no reports, data, or communications to suggest any such emanations occurred.

- R. Polack

SPONTANEOUS EVENTS

INTERROGATORY NO. 79:

State whether there were times when Reilly experienced fires, explosions, or other spontaneous events which resulted in the loss of coal tar, raw materials, any products of the processing of coal tar and the preserving of wood, or any other chemicals, substances or materials to the environment (including soil and water), and if so, state the following for each such event:

- (a) The date of the event;
- (b) A detailed description of the event including the cause of the event;
- (c) Each building, tank, pond, basin, trench, dike, ditch, or other structure or piece of equipment, that was the subject of the event;
- (d) Which materials, chemicals, substances or other materials were involved in the event and whether they were disposed of, and if so, the total amount (by volume and weight) of the disposal;
- (e) The identity of any governmental entity to whom the disposal was reported, the date and manner of such notification and the identity of the official so notified;
- (f) What cleanup measures were undertaken by Reilly for the event;
- (g) The identify of the persons with knowledge of the facts of the event.

Response to Interrogatory No. 79: See the following referenced documents:

103737, 102523, 200000, 201494, 100330, 201558, 201196, 201028, 201020, 200736, 200791, 200750, 202001.

- W. Justin

ILLNESSES

INTERROGATORY NO. 80:

State whether any employees of Reilly, its subcontractors, clients, customers, visitors, truckers,

policemen, firemen, or other persons became ill or contracted symptoms indicating illness (serious enough to require medical attention) due to exposure to the conditions, including but not limited to, the disposal of waste at the Site, or alleged that they had become ill or contracted symptons indicating illness due to such conditions at the Site, and if so, state the following for each illness:

- (a) The date when Reilly learned of the illness and how and by whom Reilly received the information;
- (b) Identity of the ill person;
- (c) Date(s) of each illness;
- (d) Nature of such illness, including its distinguishing symptoms;
- (e) Treatment received by each such ill person and the identity of the physician who provided the treatment;
- (f) Whether the illness complained of resulted in the filing of any judicial or administrative action against Reilly or the filing of any workman's compensation claim or any claim against insurance carried by Reilly, and if so' identify the claim;
- (g) Whether the illness complained of resulted in the payment of any compensation, including the payment of any medical expenses, and if so, identify the payment;
- (h) Whether Reilly had a physician who regularly attended to the employees of the company and his or her identity.

Response to Interrogatory No. 80:

- (a) R. E. McAdams, Vice President of Reilly, received a letter dated October 6, 1976 from its workman's compensation insurer, Employers Insurance of Wausau.
- (b) John Ohde (now deceased) formerly of 1828

 Dakota Avenue South, St. Louis Park,

 Minnesota 55416.
- (c) 1976.
- (d) Skin cancer. Multiple tumors of the skin.

- (e) Treatment received and identity of treating physician unknown.
- (f) Claim made in the form of a letter dated 2/28/80 from Gerald C. Magee, attorney for Mae C. Ohde claiming death causally related to employment. Claim Petition filed with State of Minnesota Workers' Compensation Division Department of Labor and Industry.
- (g) Reilly does not have this information in its possession. It is advised by its insurer that no compensation has been paid, but that the sum of \$2,052.45 has been paid for medical expenses over a period of years.
- (h) No.
 - R. Polack

MEETINGS

INTERROGATORY NO. 81:

State whether any meetings were held, at any time, between Reilly and representatives of the United States Environmental Protection Agency (or its predecessors) with regard to the Site, and if so, state for each meeting:

- (a) The date of the meeting;
- (b) The identity of persons in attendance;
- (c) The subject matter or topics discussed at the meeting; and
- (d) Identity and description of all memoranda, records, or other documents prepared for, generated by, or caused to be prepared by or on behalf of Reilly as a result of the meeting.

Response to Interrogatory No. 81: We are not aware that any meetings were held with the U.S. EPA or its predecessors, other than an October, 1980 meeting with the attorneys for plaintiffs and representatives of the EPA.

- W. Justin

INTERROGATORY NO. 82:

State whether any meetings were held, at any time, between Reilly and representatives of the State of Minnesota, Minnesota Pollution Control Agency (or its predecessors) or the Minnesota Department of Health (or its predecessors) with regard to the Site, and if so, state for each meeting:

- (a) The date of the meeting;
- (b) The identity of persons in attendance;
- (c) The subject matter or topics discussed at the meeting; and
- (d) Identity and description of all memoranda, records, or other documents prepared for, generated by, or caused to be prepared by or on behalf of Reilly as a result of the meeting.

Response to Interrogatory No. 82: Your files contain all governmental meetings and replies we are aware of. In addition the following document references are submitted.

303067, 302846, 301703, 402041R, 402039R, 302872, 301562, 302002, 302599, 302000, 302663, 302728, 301970, 304000, 302379, 301466, 208242.

- W. Justin

INTERROGATORY NO. 83:

State whether any meetings were held, at any time, between Reilly and representatives of the City, as defined in Definition No. 4 above, with regard to the Site, including but not limited to the meeting referenced in Paragraph No. 8 of Reilly's answer to the Complaint filed by the State of Minnesota in this matter, and for each such meeting state the following:

- (a) The date of the meeting;
- (b) The identity of persons in attendance;
- (c) The subject matter or topics discussed at the meeting; and
- (d) Identity and description of all memoranda, records, or other documents prepared for, generated by, or caused to be prepared by or on behalf of Reilly as a result of the meeting.

Response to Interrogatory No. 83: Your files contain all governmental meetings we are aware of. In addition the

following document references are submitted. 303076, 301375, 303759, 302289, 302447, 302844, 301584, 302852, 302239, 302242, 221627, 221424, 460285, 460271, 302819, 303341, 303955, 302822, 303957, 302458, 304402, 301577, 302385, 301862, 302167, 302857, 301845, 301795, 301690, 301688, 302083, 301843, 302464, 302694, 302465, 302894, 303970, 304115, 303979, 300746, 302663, 400718, 410477, 460405, 406408, 460382, 460340, 301562, 302002, 302599, 302000, 302638, 306491, 302663, 302728, 301970, 301525, 301532, 301551, 306433, 303912, 303989, 301506, 303992, 301489, 304000, 208242, 301368, 301458, 301366, 300633. See also 221167, attached as Appendix G.

Reilly has additional documents which are privileged which it has not produced which refer to the same meetings that are described in the foregoing documents. The privileged documents are:

Number -	Date	Author	Addressee	Reason for Privilege
400689	5-70	Reiersgord	None	work product
306325	6-30-70	Reiersgord	Ryan (cc: Finch)	legal advice
306326	6-70	Reiersgord	None	work product
306432	2-12-71	Reiersgord	None	work product
208175	2-12-71	Reiersgord	None	work product
208254-6	12-15-71 12-16-71	Reiersgord	Ryan (cc: Finch)	legal advice and work product
410414	9-1-71	Reiersgord	None	work product
208179-80	5-6-71	Reiersgord	Ryan (cc: Finch)	legal advice and work product
306469-70	2-5-71	Reiersgord	None	work product

(Note: 306469 also refers to a meeting on 2-4-71 between McPhee and an unidentified Reilly employee concerning samples.)

- W. Justin

INTERROGATORY NO. 84:

State whether any meetings were held, at any time, between Reilly and representatives of the Authority, as defined in Definition No. 5 above, or with the Commission, as defined in Definition No. 6 above, with regard to the Site, and if so state for each meeting:

- (a) The date of the meeting;
- (b) The identity of persons in attendance;
- (c) The subject matter or topics discussed at the meeting; and
- (d) Identify and describe all memoranda, records, or other documents prepared for, generated by, or caused to be prepared by or on behalf of Reilly as a result of the meeting.

Response to Interrogatory No. 84: See Response to Interrogatory No. 82.

- R. Polack

OTHERS LIABLE

INTERROGATORY NO. 85:

Does Reilly allege that any person, not a party to this action, is liable for the water pollution by phenolic compounds, PAH, and other compounds found in coal tar and its derivatives, and if so, enumerate specifically each and every fact upon which Reilly bases its contention(s).

Response to Interrogatory No. 85: Reilly is continuing to investigate and is unable to answer at this time.

PHOTOGRAPHS

INTERROGATORY NO. 86:

With regard to the attached photographs, number stamped as Nos. 305243 and 305244 and attached hereto as Attachment Nos. 3A and 3B, identify each photograph, the date the photograph was taken, who took the photograph, and provide the following information with regard to each of the structures, buildings, tanks, facilities and areas, marked and numbered as Nos. 1 - 69:

Photograph No. 305243: the structure marked as No. 1; the building marked as No. 2; the tanks marked as Nos. 3-10; the structure marked as No. 11; the buildings marked as Nos. 12-15; the area marked as No. 16; the building marked as No. 17; the buildings marked as Nos. 18 and 19; the structure marked as No. 20; the buildings marked as Nos. 21 and 22; and the area marked as No. 23.

Photograph No. 305244: the structure marked as No. 24; the building marked as No. 25; the tanks marked as No. 26-33; the struc ture marked as No. 34; the buildings marked as No. 35-38; the area marked as No. 39; the building marked as No. 40; the buildings marked as Nos. 41-47; the area marked as No. 48; the facilities marked as No. 49; the area marked as No. 50; the facilities marked as No. 51; the facilities marked as No. 52; the object marked as No. 53; the area marked as No. 54; the area marked as Nos. 56-58; the tanks marked as Nos. 59-61; the structure marked as Nos. 62-68; and the area marked as No. 69.

For each of the foregoing, state the following:

- (a) The name of term commonly used to identify or refer to the structure, building, tank, facility or area at the time of the photograph;
- (b) The date when the structure, building, tank, facility or area was constructed and the date, nature and reason for any change(s) in the structure, building, tank, facility or area;
- (c) The use or purpose of the structure, building tank, facility or area;
- (d) The capacity of the structure, building, tank, facility or area;
- (e) The material stored or processed at the structure, building, tank, facility or area.

In addition, with regard to the area marked as No. 50, identify the stored material and provide its chemical composition; furthermore, with regard to the areas marked as Nos. 54 and 55, state whether the trench network at the Site flowed to these areas.

Response to Interrogatory No. 86: Both photographs are an aerial view of the St. Louis Park Plant. No.305243 was probably taken in the late 30's and No. 305244 was probably taken in the early 50's.

Photograph 305243:

Mark	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Tar cistern Tank Car Unloading Shed Storage Tank No. 7 " " " 2 " " " 3 " " 5 " " 8 " " 4 " " 6 " " 10 Transformer Pad By Products Building Garage & Shop Plant Office Refinery Building Cooling Pond Pump House Boiler House & Tank House Locomotive House Adzing & Boring Mill Creosoting Cylinder House " " " Concrete Loading Ramp
24 25 26 27 28 28 29 30 31 32 33 34 35 17 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	Tar Cistern Tank Car Unloading Shed Storage Tank No. 7 Storage Tank No. 2 " " " 3 " " " 5 " " 8 " " 4 " " 6 " " 10 Transformer Pad By Products Building Garage & Shop Office & Laboratory Refinery Cooling Pond Pump House Boiler House Locomotive House Adzing & Boring Bldg. Cylinder House Cylinder House Cylinder House Shower and Wash Room Incising Building Concrete Loading Ramp By Product Plant Discarded Firebrick from Shell Stills Tanks for Refinery Tank House for Treating Plant Car Load of White Ties Bog South of Walker Street (trench network did not flow to this area)

55

Bog South of Walker Street (trench network did not flow to this area) Blacktop Service Co. (Asphalt Plant)

56 to 59

See also Response to Interrogatory No. 16.

- R. J. Hennessy

INFORMATION

INTERROGATORY NO. 87:

Identify all persons who now work or have worked for Reilly, or have been or are consultants to Reilly or work for consultants hired by Reilly who have information relating to any of the following subjects:

- (a) The effects of phenolic compounds, PAH, and other compounds found in coal tar and its derivatives, on the human body or the environment;
- (b) Reilly's decision-making relating to the disposal of wastes at the Site;
- (c) Any economic benefits resulting to Reilly by failing to properly dispose of wastes at the Site;
- (d) Reilly's efforts to assure that wastes were disposed of at the Site in a proper manner;
- (e) Present need for remedial action at, or in the vicinity of the Site.

Response to Interrogatory No. 87:

(a) Reilly Tar & Chemical Corporation. The persons who are currently available are listed below. The records produced identify many others.

Francis E. Cislak 5331 Kenwood Avenue Indianapolis, Indiana 46208

William R. Wheeler 502 West 77th Street Indianapolis, Indiana 46260

Carl F. Lesher
Reilly Tar & Chemical Corp.
1510 Market Square Center
151 North Delaware Street
Indianapolis, Indiana 46204

Robert Polack
Reilly Tar & Chemical Corp.
1510 Market Square Center
151 North Delaware Street
Indianapolis, Indiana 46204

Gerald L. Goe Reilly Tar & Chemical Corp. 1510 Market Square Center 151 North Delaware Street Indianapolis, Indiana 46204

William Roder
Reilly Tar & Chemical Corp.
1510 Market Square Center
151 North Delaware Street
Indianapolis, Indiana 46204

William Justin
Reilly Tar & Chemical Corp.
1510 Market Square Center
151 North Delaware Street
Indianapolis, Indiana 46204

(b) Carl F. Lesher
Reilly Tar & Chemical Corp.
1510 Market Square Center
151 North Delaware Street
Indianapolis, Indiana 46204

Herbert Finch 8213 Virginia Circle North Minneapolis, Minnesota

Richard Hennessy 5816 Crittenden Avenue Indianapolis, Indiana 46220

Harold R. Horner 4712 Round Lake Road Indianapolis, Indiana 46205

William Justin

William R. Wheeler

- (c) This question assumes that Reilly failed properly to dispose of wastes and that economic benefits resulted therefrom, an assumption which Reilly disputes. In any event, there are no witnesses who would be aware of alleged economic benefits.
- (d) See (b) above.

(e) Environmental Research & Technology, Inc.
Porter Building
10th Floor
601 Grant Street
Pittsburgh, Pennsylvania 15219

F. C. McMichael
Porter Building
10th Floor
601 Grant Street
Pittsburgh, Pennsylvania 15219

John Craun
Porter Building
10th Floor
601 Grant Street
Pittsburgh, Pennsylvania 15219

- R. Polack

INTERROGATORY NO. 88:

Identify all persons not previously identified in response to these interrogatories having knowledge or information relevant or related to any of the allegations contained in Reilly's Answers who are known to Reilly, their attorneys, or agents, including but not limited to experts retained but not expected to be called as expert witnesses at substance of each person's knowledge or information.

Response to Interrogatory No. 88: None, other than those identified in various documents already produced.

- R. Polack

EMPLOYEES

INTERROGATORY NO. 89:

Identify all persons who were employed by Reilly and worked at the Site in any capacity, as well as any Reilly employees who did not work at the Site but who had some responsibility for managing or supervising activities at the Site, and for each per son provide at least the following information:

- (a) The dates of employment;
- (b) The position in which the person was employed;
- (c) The duties of the person;
- (d) The present address of person;
- (e) The reason for the person's termination from employment with Reilly.

Response to Interrogatory No. 89: The identity of all such persons known to Reilly at this time has been set forth in prior answers or identified in documents already produced.

- R. Polack

WITNESSES

INTERROGATORY NO. 90:

State the name, official position, place of employment, business address, and field of expertise of each person whom you expect to call as an expert witness at trial. For each expert witness state:

- (a) The subject matter on which the expert is expected to testify;
- (b) The substance of the facts and opinions to which the expert is expected to testify;
- (c) A summary of the grounds for each opinion to which the expert is expected to testify;
- (d) Identify by title, author and date of publication all trestises, books, studies, articles or other materials upon which said expert relied for formation or support of his or her opinion.

Response to Interrogatory No. 90: Reilly has not yet made a decision concerning the identity of expert witnesses who will be called at trial.

REILLY TAR & CHEMICAL CORPORATION

Robert Polack

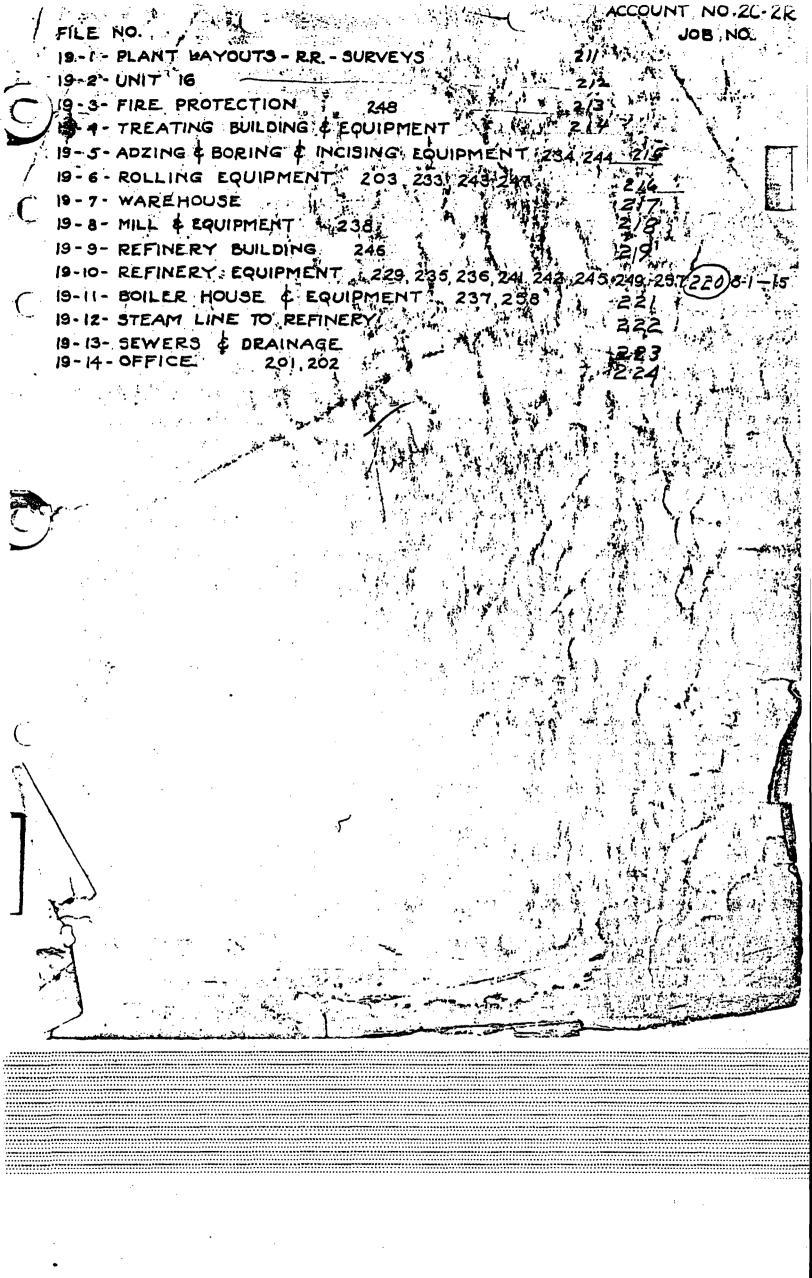
Vice President and General Counsel

Subscribed and sworn to before me this 2 of day of Stoken, 1981.

Notary Public

VERONICA M. BLEDSOE MY COMMISSION EXPIRES LAN. 29, 1362 DORSEY, WINDHORST, HANNAFORD, WHITNEY & HALLADAY

Edward J. Schwartzbauer



		EYIOUS A
FILE	DESCRIPTION .	NO
2//	PLANT LAYOUTS & R.R. SURVEYS	9-1
2/2	UNIT 16	9-2
2/3	FIRE PROTECTION	9-3
214	TREATING BUILDING EQUIPMENT	9-4
215	AUZING & BORING & INCISING EQUIPMENT	7-5
216	ROLLING EQUIPMENT	9-6
2/7	WARE HOUSE	9-7
2/8	MILL EQUIPMENT	9-8
219	REFINERY BUILDING	9-9
220	REFINERY EQUIPMENT	9-10
221		9-11
222		9-12
223	SEWERS & DRAINAGE	9-13
224	OFFICE	7-14
225	CHANGE ROOM	
226	GARAGE & BLACKSMITH SHOP	
269	TEMPERATURE RECORDED TO OTILLE	
272	FEED WATER HEATER PIPING	
272	ELECTRODE PITCH PLANT	
268	A & B MILL PREPARATION FOR LIFT TRUCK & GARA	IGE 3
269	TEMPERATURE RECORDER FOR STILLS	7- 3
270	DEEP WELL PUMP, TANK & WATERLINE	
272	BOILER FEED WATER SYSTEM	1
273	ELECTRODE PITCH BAY EXTENSION	
282	ELECTRODE PITCHPLANIT EXPANSION	
286	OVERHEAD STEAM LINE - REFINERY TO TANK FARM	3
289	PROPOSED COOLER FOR BLEND TANK	
291	GAS FROM BOILER ROOM TO REFINERY SEE 271 .	4
298	FABRICATE & INSTALL FIRE TUBE CONVERSIONSTILLS INSETTING	A ICOL
	· · · · · · · · · · · · · · · · · · ·	7773000
· •		

The Market State of the State o

O	,, ,,	POAD NA LAYOUT. O STORAGE SURVEY GENERAL PROPERT LOCATION	POF HAN FRAN OF PLAN OF LAYO NOF T	UT R.C.Co. ZOPOSED	RAMSEY	9 NT NT NT NT	L.E.H	19-1-7	19-1-1 19-1-2 19-1-3 19-1-4
•		•							
C			·			. •			÷
		· :				. •	·		
								·	
					•				

					, 0	<u> </u>
				Br	Dws #	FILE
grego.	BF	GENERAL PLANT LAYOUT INSURANCE MAP SEC INSURANCE FILE FOR D PROFILE OF 8" WATER MAIN LAYOUT & DETAIL OF FIRE PROTECTION PROFILE OF 8" WATER MAIN		R.C.Co	19-1-1	19-3-1
- X-	MAP	INSURANCE MAP See Insurance File for D	rawing	M. & M.	19-3-2	19-3-E
. \	BF.	PROFILE OF 8" WATER MAIN	,	R.C.Co.	19-3-3	19-3-£
	1.	LAYOUT & DETAIL OF FIRE PROTECTION	v Syssa	Reca	19-3-4	19-3-,
	. . "	PROFILE OF 8" WATER MAIN.		. "	19-3-5	/9-3-£
	-	A CONTRACTOR OF THE CONTRACTOR				
		The second secon				
·		· · · · · · · · · · · · · · · · · · ·	. \			i
				!		
	-	and the second control of the second control				-
	 					
	-	was a second of the second of				
		the second secon				
	-	the state of the s				
••	1					
	1					-
	1					
		the second secon	,	Ì		
			İ	J	į	
a a a sec		•		•	i	
				· [{	
· · · ·					1	
	1 1		·		1	
	1 1		į			
	1 - 1	A second control of the control of t				
					1	
					.	•
]		-		- 1	••
					1	
			ļ		1	
• .			ļ		1	
				1	i	
			1		j	
					. 1	
	,					•
			į		1	
					1	
		and the second s			1	
,					1	
		A STATE OF THE PARTY OF THE PAR]		
ا مر		and the second s			1	
(m))_i_	<u>- </u>	· Company of the Comp				
	- 1					
. [1		
						•
	<u>{</u> .	e de la companya del la companya de la companya de	!	!		·
	*********		•••••••••••••••••••••••••••••••			
			•••••			

•				_	· ·
			By.	Dwo#	FILE
	AP	FOUNDATION & PILING PLAN TIE MACHING BLOG	W.H.W.	/ .	19-5-1
· · · · · · · · · · · · · · · · · · ·	"	GROUND FLOOR & ROOF PLAN	"	2	19-5-2
		DETAIL OF WALL GIRDERS "	"		19-5-3
		ELEVATIONS & MACHINE FOUNDATIONS "	,,	_	19-5-1
• ·	7.		GRC		
•			G.B. Co.	1	
			B.B.Co.	1	7
		FOUNDATION PLAN	4 2 4		19-5-7
		PROPOSED TIE MACHINING MILL		1410	
		TIE. BRANDING MACHINE	l .	283ZX-L	
	"	ADJUSTABLE TIE BORING MACHINE	"	676ZN-L	19-5-11
	"	ASSEMBLY OF CAM ADJ. PARTS	"	292ZX-L	19-5-1.
	**	SECTION "A"- "A" OF 676 ZN-L	"	673-ZN-L	19-5-12
	10	"C" "C" "	,,,	675ZN-L	19-5-1
	10	" "B-"B" " "	· ·	6332"	19-5-14
		SPINDLE GEAR BOX THE BORING MACHINE	"	1560ZN-1	r
		8 GRAVITY CONVEYOR WITH STOP	1	1160ZNL	L -
:		TIE PAISING DOG ASSEMBLY	"		19.5-1
		GEAR BOX PUMP	,,	1919 ZH-S	r -
• •		LOADING FORM SPRING ATTACHMENT *	1		19-5-1
	1,.	LOADING FORM SPRING ATTACHMENT	, ,	t .	
<u> </u>		ASSEMBLY OF SPINDLE PARTS			19-5-2
		TIE MOVING MOVENS MECHANISM		1728ZN-L	
	ļ - <u>-</u>	FLOOR PLAN		ſ	19.5.2.
. <u>-</u> .		LINE MARKING SAW		229724	B.
i-()-	-	ADZER KNIFE BALANCING STAND	,,,	1041 ZPL	
		BILLS OF MATERIAL FOR ADZING & BORING EAP	4	1	19-5-2
		Lauret et McNoula Nipolina	K.C.Co.		19-5-
,	1	ARRANGEMENT OF CONVEYORS TO INCISING MACHINE	Tr. C.C.	19-53	ر میسور ا
<u></u>	I.T.	INCISING NINCHUSE EUI-DING		19-5-28	1
	1.	DETAILS OF INCISING BUILDING	1	19.5-19	, ,
	B.F.	PIPING DIAGRAM FOR TIMBER INCISING MACHIN	A C.B.4GK	P M-3399	19-3-3-
<u> </u>	1 ::	PROPOSEDED ADDITION OF THE A TIMEER CONVEYORS	G. D. C.	1795	19-5-
	F	Strocker while for incising machine			19-5-3
•	7-	INCISING ROLL HEAD FOR TIMBER INCISING MACHINE	12.7.52.	17-5-33	19-5-3:
	7	Details of Conveyors to Incising Machine	R.C.Co.	19.5.34	19.5-3
			1	}	
	1			}	ļ
	`				
:	1	The state of the s		ļ	
	1			1	
<u></u> .	† -]
	┪	The second secon	İ		1.
	┪┈━	The second secon	1		1.
: ···· ·	 		·		1
		The state of the s			1 .
<u>:</u>		the state of the s	·		-
	-	The state of the s	·		i -
-()		The second secon	1		1
	4 -	and the second s			
					· \$
j		to any green servers. The contract of the cont			
			1	1	1

The second

					,	Ų
•				Av	, Dwo#	ے . ہے
	حرو	TIE TRAM 24" GUAGE 6'-0" CYL	· • • • • •	1400 CO	308	FILE
	ا	RACK CARS			6478	
) 1	-	TIE TRAN	,		19-6-3	
1	11	TRAM CAR DUMPING RIG	1	1	23222	T
		CAR HAUL		D. 1.W.G	11424	19-6-5
		" PULLER	!		10962	
		TYPE 2 ULC LOCOMOTIVE			12-1015	
	••	LIST OF PARTS FOR ABOVE ENGINE	,	••		19-6-8
	11	1ST FLOOR PLAN OF WAREHOUSE		R. C.Co	 	19-7-8
	1 1	200			1-Z-	18-7-1
	1 1	SIDE ELEVATION "			13.	19-7-11
.]	1	SECTIONAL VIEWS			1	19-11
	1	MANHOLE COVER ACX 50-61			19-6-10	
	1,,	" " 66-74 " " 58	· ·	,,		19-6-11
	"	" " 65,68,69		-		19-6-12
1	1-1	BRONZE TRAM BEARING	•			19-6-13
j	1	URONZE TEAM MARKET		1	, , , , , ,	7.5.
.	1		_		1	t .
	1		,		1	
	1				!	
	<i>i</i> '			}	,	1
	1 '				1	
, j	1 1					-
	1 . "					
	1 '	Ì				1
	1 - 1				!	
	1 /					•
	'					
	'					
						l . '
	'			İ		\ '
	. '	↓				j l
		-				•
						
					İ	!
		 	•	1		
		T	•	1 .		
			-			
	<u> </u>]		
**				1		
1.	1					
·		, the same and the				ł
	1					1
		The second secon				
		THE PROPERTY OF THE PROPERTY O	. •			1.

•				19-	
•	اد ا		Br R.C.C.	Droft	FILE
	B.F.	1ST FLOOR PLAN OF WAREHOUSE	M.C.Co	./	
and grant				23	19-7-
		ELEVATIONS " " " SECTIONAL VIEWS " "		A	19-7-i 19-7-x
		SECTIONAL VIEWS		~	77-7-2
		***** * * * * * * * * * * * * * * * *			
					·
•					
			Ì		
					<u>-</u>
•					
		,			
`•					
		<u>.</u>			
•					
			.	ì	
7					,
•					•
	1				
		and the second of the second o			
		The state of the s			
- ····					
·	1			}	
		in non-angle in a construction of the construc		į	
	- 1	and the second s			
•					
<u> </u>			j		
				•	
				-	
<u> -</u>	-	The second secon			
<u> </u>		<u> </u>			
} -4: }-4		and the state of t	1	ļ	
<u> </u>				j	
-				1	-
				•	1
				ŀ	-
					[. ·

	BZ: : : !! T	PROPOSED CHANGES IN POWER TRANSMISSION LUMBER CONVEYOR BLOCK SAW SHAVINGS EXHAUST PIPES PROPOSED CHANGES & IMPROVEMENTS TOOL ROOM PROPOSED CHANGES IN POWER TRANSMISSION BLOOMINGTON MILL BUILDING	R. C. Co R. C. Co G. B. Co. R. C. Co. R. C. Co.	/9·8·2 /9·0·25 /4/1 /9·0·22 983 /9·0·27	19-8-1 19-8-2 19-8-3 19-8-4 19-8-5 19-8-6
·				-	
•					. •
				,	
	٠.	•			·
			·		
		· · · · · · · · · · · · · · · · · · ·			
			·		
				,	
· · · · · · · · · · · · · · · · · · ·					
					·
۱					
			·		
	1		1		<u></u>
	••••••				

		73-3
		BY DWG# FILE
· · • · · · · · · · · · · · · · · · · ·	BP	BUILDING PLAN - 19-9-1 19-9-1
	13.	FOOTING " 19-9-2/9-9-2
	4	FLOOR " 19-9-3 19-9-3
		" 19-9-4 19-9-4
	••	ELEVATIONS 1' 19-9-5 19-9-5
	,	
		,
<u>.</u>		
:		
•	'	
•		
. .		
	}	
`		
	i	
.		
- 		
-	1	
-		
	ł ···	
. •••	- "	
	ļ	
	ļ	
<u>.</u>		
	t·	
(
F / / _	ļ <u>.</u>	
		The second secon
t		
	<u></u> :	
••••		
•••••••••••		
***************	••••••	

					,
			BY	DWG M	FILE
_	BA	90×16" STILL	P.C.C	2	19-10-1
	"	FLOAT MECHANISM (7' \$ x 14' LONG PITCH_TANKS.	W.B.BC.	B 2308	19-10-2
	10	SAFETY VALVE INSTALLATION		19-10-3	
}	"	MANOMETER PIPING DIAGRAM	A.C.Co.	8-0-24	19-10-4
	11	MANHOLE COVER	"	19-10-5	19-10-5
	10	BATTERY OF STILLS	"	1.	19-10-6
F		REFINERY DETAIL	R.C.Co	19-0-24	19-10-7
	7	PROFILE OF COME TRACKS & DOOR SILLS		19-0-23	19-10-8
i -	"	STILL ROOM - PAN ROOM SEAL		19-10-9	
					/c
	1				/3
. –	مروا	MANHOLE COYER RELEASE			19-10-14
	"				19-10-16
	"	DUTCH OVENS	R.C.Co.	8-0-40	
		STILL DAMPER		3	
	11	DETAIL OF 12"x 18" DOOR FOR REILLY STILLS		5-76	19-101
	"	PROPOSED TAR DENYDRATING TANK		8-D-18	19-10-1:
}	1				2
- "	جرفر	MAYWOOD STILL	R.C.G.	BD20	19-10-2
		STILL DETAILS	PTOCCO	8581	19-10-2
1		STHE DANFER CONTROL	BC (2		12-12-
	7	Δ - Δ -	Dref	12-10-71	14-1-
!	RO	ARRAINGEMENT OF WELDED COKEING STILLS (DESOLETE)	1.1.W. / NE	0-11257-6	19:10-2
,	BP	7-7" X 16-1 LG COKE STILL (CORRECT PRINT)	K.I.W. Mc	0-14311-6	19-10-:
4	F 1	7'-7" X 16'-1" REILLY WELDED STILL	-		100
1		1 - / X 16 - / CEILLY WELDED JILL	IRT CH.	19-10-27	119-10-6
7	1	1 -/ X_16 -1 CETLLY WELDED STILL	RT.CH.	19-10-27	19-10-2
	4	T - / X - / CETLLY WELDED STILL	R.T. CH.	19-10-27	19-10-6
		T-7 X-16-17 CETLLY WELDED STILL	RT.CH.	i9-10-27	19-10-6
		T-7 X-16-7 CETLLY WELDED STILL	RT CH.	19-10-27	19-70-2
		T-7-X-16-77 CETLLY WELDED STILL	RJ CH.	j9=/a·27	19-10-4
		T - 7 X 16 - T CETLLY WELDED STILL	RT CH.	j9=/a·27	19-10-4
		1 - 7 × 76 - 7 CETLLY WELDED STILL	RJ CH.	j9=/a·27	19-10-4
		T = 7 × 76 = 7 · CETLLY WELDED STILL	RT CH.	j9=/a-27	19-10-4
		T-7-X-16-J. CETLLY WELDED STILL	RT CH.	j9=/a-27	19-10-4
		T - 7 X 16 - J CETLLY WELDED STILL	RT CH.	j9=/a·27	19-10-4
		T-7-7-10-17 CETLY WELDED STILL	RT CH.	j9=/a-27	19-10-4
		T - 7 X 16 - J CETLLY WELDED STILL		j9=/a-27	19-10-4
		T - 7 X 16 - J CETLLY WELDED STILL		j9=/a-27	19-10-4
		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		j9=/a-27	19-10-4
		1 - 7 × 16 - 1 / CETCLY WELDED STILL		j9=/a-27	19-10-4
		- CETCLY WELDED STILL		j9=/a-27	19-10-4
		1 -/ X 16 -J / CETALY WELDED JIEL		j9=/a-27	19-10-4
		1 - / X - 10 - 7 CETALY WELDED STILL		j9=/a-27	19-10-4
		1 -7 - x - 16 - 17 -		j9=/a-27	19-10-4
		The state of the s		j9=/a-27	19-10-4
		To your well and the second of		j9=/a-27	19-10-4
		To the state of th		j9=/a-27	19-10-4
		To the state of th		j9=/a-27	19-10-4
		To the state of th		j9=/a-27	19-10-4
		The state of the s		i9=/a-27	19-10-4
		The state of the s		j9=/a-27	14-10-4

T DETAILS OF PARCEL BURNING SYSTEM GROWS ENT. R.C.C. 12. BOST OPENINGS FOR BULER INSTALLATION	ı			BV ·	DWG. No	EUE
EDET OPENINGS FOR BOLLER INSTALLATION		<u></u> .	7 P 6 6 F			
LAYOUT OF BOILER & EGPT. DETAILS OF FLUE PLAN FOR BOILER BR. FOUNDATION FOR BOILER DETAILS OF COLD AIR DUCT FRONT WALL SUPPORT CASING CLARAGE FAN SOOT BLOWER PIPING TOUNDATIONS FOR OIL & PITCH TANK DETAILS OF BOILER FUEL SYSTEM AIRS. PIPING DETAILS BR. TANK & POWER HOUSE PLING & FLOOR PLAN ASSEMBLY OF BUILER BOILER SETTING PLAN FOR TO ADDITIONAL BOILER BLARCOSE BETTANK & POWER HOUSE PLING & FLOOR PLAN ARGONT OF BURNERS & FORMICE FOR 350 PP BOILER WABCOM ARROWS OF BURNERS & FORMICE FOR 350 PP BOILER WABCOM ARROWS OF BURNERS & FORMICE FOR 350 PP BOILER WABCOM ARROWS OF BURNERS & FORMICE FOR 350 PP BOILER WABCOM ARROWS OF BURNERS & FORMICE FOR 350 PP BOILER WABCOM ARROWS OF BURNERS & FORMICE FOR 350 PP BOILER WABCOM ARROWS OF BURNERS & FORMICE FOR 350 PP BOILER WABCOM ARROWS OF BURNERS & FORMICE FOR 350 PP BOILER WABCOM ARROWS OF BURNERS & FORMICE FOR 350 PP BOILER WABCOM ARROWS OF BURNERS & FORMICE FOR 350 PP BOILER WABCOM ARROWS OF BURNERS & FORMICE FOR 350 PP BOILER ARROWS OF BURNERS & FORMICE FOR 350 PP BOILER ARROWS OF BURNERS & FORMICE FOR 350 PP BOILER ARROWS OF BURNERS & FORMICE FOR 350 PP BOILER ARROWS OF BURNERS & FORMICE FOR 350 PP BOILER ARROWS OF STAILS FOR 300 HP BULER ARROWS OF STAILS FOR 300 HP BURNER ARROWS ASSEMBLY FORM DOIS ASSEMBLY FORM CASHING BURNER BURNING STEMM ARROWS PORTION OF STAILS FOR 300 HP BURNING STEMM ARROWS ASSEMBLY ARROWS ASSEMBLY ARROWS ASSEMBLY ARROWS BURNERS BURNING STEMM ARROWS BURNERS BURNING STEMM ARROWS BURNERS BURNING STEMM ARROWS ASSEMBLY ARROWS BURNERS FOR FIRST BURNING STEMM ARROWS ASSEMBLY ARROWS BURNERS BURNING STEMM ARROWS ASSEMBLY ARROWS BURNERS FOR FIRST BURNING STEMM ARROWS BURNERS FOR FIRST BURNING STEMM ARROWS ASSEMBLY ARROWS FOR FIRST BURNING STEMM ARROWS FOR FOR BURNING FOR FIRST FOR BOUNDARY FOR JOUR FIRST FOR BOUNDARY FOR JOUR FIRST FOR BOUNDARY FOR JOUR FIRST FOR BOUNDARY FOR JOUR FIRST FOR BOUNDARY FOR JOUR FIRST FOR BOUNDARY FOR JOUR FIRST FOR JOUR FIRST FOR JOUR FIRST FOR JOUR FIRST FOR JOUR FIRST FOR J	l	1.	DETAILS COF. PITCH LOURNING . SYSTEM WOOMEE POT	<i>p.c.</i> 	172117.1	17:11-1
LAYOUT OF BOILER & EOPT. DETAILS OF FLUE PLAN FOR BOILER PLING PLAN FOR BOILER PLING PLAN FOR BOILER DETAILS OF COLD AIR DUCT FRONT WALL SUPPORT CASING CASING COT BLOWER PIPING FOUNDATIONS FOR COLE & PITCH TANK ECC. 18- DETAILS OF BOILER FUEL SYSTEM TOUNDATIONS FOR COLE & PITCH TANK ECC. 18- DETAILS OF BOILER FUEL SYSTEM THE PRING POWER PLANES DETAILS OF FUNDATIONS FOR ADDITION TO BOILER BLER BLE RC. 6- GENERAL DESIGN OF ADDITION TO BOILER HOUSE DETRIUS OF FUNDATIONS FOR ADDITION TO BOILER HOUSE DETRIUS OF FUNDATIONS FOR ADDITION TO BOILER HOUSE ARRONT OF BURNERS & FORNACE FOR 350 AP BOILER WABCO ARRONT OF BURNERS & FORNACE FOR 350 AP BOILER WABCO ARRONT OF BURNERS & FORNACE FOR 350 AP BOILER WABCO ARRONT OF BURNERS & FORNACE FOR BOILER NAA BURNER FOR F.C.C. ARRONT OF BURNERS & FORNACE FOR BOILER ARRONT OF BURNERS & FORNACE FOR BOILER ARRONT OF BURNERS & FORNACE FOR BOILER ARRONT OF BURNERS & FORNACE FOR BOILER ARRONT OF BURNERS & FORNACE FOR BOILER ARRONT OF BURNERS & FORNACE FOR BOILER ARRONT OF BURNERS & FORNACE FOR BOILER ARRONT OF BURNERS & FORNACE FOR BOILER ARRONT OF BURNERS & FORNACE FOR BOILER ARRONT OF BURNERS & FORNACE FOR BOILER ARRONT OF BURNERS & FORNACE FOR BOILER ARRONT OF BURNERS & FORNACE FOR BOILER ARRONT LASING & SUBGESTED WINDBOILDER ARRONT LASING & SUBGESTED WINDBOILDER ARRONT DUCT ARRONT LASING & SUBGESTED WINDBOILDER ARRONT BOILER ARRONT DUCT ARRONT DUCT ARRONT DUCT ARROND BOILER BOILER BOILER BOILER BOILER BOILER BOILER BOILER BOILER B	١	^	THE PITCH LINE			
DETAILS OF FLUE PLAN FOR BOILER BRING PLAN FOR BOILER DETAILS OF COLD AIR DOOT FRONT WALL SUPPORT CASING SOOT BLOWER DIPING CLERAGE FAN SOOT BLOWER PIPING TOWNDATIONS FOR O'L & PITCH TANK DETAILS OF BOILER FUEL SYSTEM TISS. PIPING DETAILS DETAILS OF FUNDATIONS FOR ADDITIONAL BOILER BUR RC. CO. 19. OFFIRIS OF FUNDATIONS FOR ADDITIONAL BOILER BUR RC. CO. 19. DETAILS OF FUNDATIONS FOR ADDITIONAL BOILER BUR RC. CO. 19. DETAILS OF FUNDATIONS FOR ADDITIONAL BOILER BUR RC. CO. 19. DETAILS OF FUNDATIONS FOR ADDITIONAL BOILER BUR RC. CO. 19. DETAILS OF FUNDATIONS FOR ADDITIONAL BOILER BUR RC. CO. 19. DETAILS OF FUNDATIONS FOR ADDITIONAL BOILER BUR RC. CO. 19. DETAILS OF FUNDATIONS FOR ADDITION TO BOILER WASC. CO. 19. DETAILS OF FUNDATIONS FOR ADDITION TO BOILER WASC. CO. 19. BOTOS WATERTOBE BOILER ARROMT OF BURNERS & FORNACE FOR 350 IP BOILER WASC. AT. ARROMT OF BURNERS & FORNACE FOR BOILER WASC. AT. ARROMT OF BURNERS & FORNACE FOR BOILER "MAD BOY DETAILS FOR 300 NP BOILER "ARROMT OF BURNER WITH S. SERIES BY BOILER "ARROMT OF BURNER WITH S. SERIES TO BOILER "ARROMT OF BURNER WITH S. SERIES TO BOILER "ARROMT OF BURNER WITH S. SERIES TO BOILER "ARROMT OF BURNER WITH S. SERIES TO BOILER "ARROMT OF BURNER BURS TOWN BONING SYSTEM "ARROMT OF BURNER BURS TOWN BONING SYSTEM "ARROMT OF SURVEY BURNER BURNERS FOR MAR. "ARROWS OF SYSTEM "ARROWS BURNER BURNER BURNER BURNING SYSTEM "ARROWS BURNER BURNER BURNING SYSTEM "ARROWS BURNER BURNER BURNING SYSTEM "ARROWS BURNER BURNER BURNING SYSTEM "ARROWS BURNER BURNER BURNING SYSTEM "ARROWS COLD AND FOR STITCH BURNING SYSTEM "ARROWS BURNER BURNER BURNING SYSTEM "ARROWS COLD AND FOR STITCH BURNING SYSTEM "ARROWS BURNER BURNER BURNING SYSTEM "ARROWS BURNER BURNER FOR DURY BO BURNER "ARROWS FOR FILEY TOWN BURNING SYSTEM "ARROWS BURNERS FOR STITCH BURNING SYSTEM "ARROWS BURNERS FOR STITCH BURNING SYSTEM "ARROWS BURNERS FOR STITCH BURNING SYSTEM "ARROWS BURNERS BURNER BURNING SYSTEM "ARROWS BURNERS FOR STITCH BURNING SYSTEM "ARROWS BURNERS FOR STIT						
BRI FOUNDATION FOR BOILER DETRILS OF COLD AIR DOCT SOT BLOWER CASING SOT BLOWER CLARAGE FAN SOT BLOWER CLARAGE FAN SOT BLOWER CLARAGE FAN SOT BLOWER CLARAGE FAN SOT BLOWER CLARAGE FAN SOT BLOWER TOUNDATIONS FOR OIL & PITCH TANK DETRILS OF BOILER FUEL SYSTEM "IT. DETRILS OF FOUNDATIONS FOR MODITIONAL BOILER BLAKE C.C. 19- "GENERAL DESIGN OF ADDITION TO BOILER HOUSE "SETTING PLAN FOR 72'x 18' BOILER BROS WATERTUBE BOILER "ARROWN OF BURNERS & FORNACE FOR 350 M BOILER WABCO A- "PAPSO. ARROMT. OF RILEY STEAM GENATIO UNIT R.S. CO. 19- "M. A. BURNER FOR F.C. CO. "ARROMT OF BURNERS & FORNACE FOR 350 M BOILER WABCO A- "ARROWN OF BURNERS & FORNACE FOR BOILER "ARROWN OF BURNERS & FORNACE FOR SO STEAM "ARROWN OF BURNERS & FORNACE FOR BOILER "ARROWN OF BURNERS & FORNACE FOR BOILER "ARROWN OF BURNERS & FORNACE FOR BOILER "ARROWN OF BURNERS & FORNACE FOR BOILER "ARROWN OF BURNERS & FORNACE FOR BOILER "ARROWN OF BURNERS & FORNACE FOR BOILER "ARROWN OF BURNERS & FORNACE FOR BOILER "ARROWN OF BURNERS & FORNACE FOR BOILER "ARROWN OF BURNERS & FORNACE FOR BOILER "ARROWN OF BURNERS & FORNACE FOR BOILER "ARROWN OF BURNERS & FORNACE FOR BOILER "ARROWN OF STEAM BURNERS BURNER STEAM "AND BOY DETAILS FOR 300 M P BULLER "ARROWN OF STEAM "ARROWN DOOR ASSEMBLY "ARR	l	*	LAYOUT OF BOILER & EGPT.			
DETAILS OF COLD AIR DUCT DETAILS OF COLD AIR DUCT FRONT WALL SUPPORT CASING CARRAGE FAN SOOT BLOWER PIPING CHARAGE FAN SOOT BLOWER PIPING FOUNDATIONS FOR OUL & PITCH TANK DETAILS OF FOLICE FUEL SYSTEM TISC. PIPING DETAILS FEVATIONS DETAILS OF FOUNDATIONS FOR ADDITIONAL BOILER BLAKC. (** 19.* GENERAL DESIGN. OF ADDITION TO BOILER HOUSE BROS WITERTUBE BOILER ARRONT OF BURNERS FORNACE FOR 350 M BOILER MABGE! ARRONT OF BURNERS FORNACE FOR 350 M BOILER MABGE! ARRONT OF BURNERS FORNACE FOR 350 M BOILER MABGE! MIND BOY DETAILS FOR 300 M P BULER ARRONT OF BURNERS FORNACE FOR SOULER MAD ON ASSEMBLY FUND FOR PITCH BURNING SYSTEM ARRONT OF BURNERS FORNACE FOR BOILER MAD ON ASSEMBLY FOUNDATION & TEAR AND SLUDGE TYPE FOLL OIL BANK FOUNDATION & TEAR NISULATION APPANGEMENT FOUNDATION & TEAR NISULATION APPANGEMENT FOUNDATION & TEAR STEEM ARRONT DETAILS BORNER BY FARE THE BO BULER FOUNDATION & TEAR STEEM ARRONT DETAILS BORNER BY FARE TOPE FOLL OIL BANK FOUNDATION & TEAR NISULATION APPANGEMENT FOUNDATION & TEAR TOPE SUPPLY DUCK FIC. ARRONT DETAILS BORNER BY FAIR SUPPLY DUCK FIC. ARRONT DETAILS BORNER BY FAIR SUPPLY DUCK FIC. ARRONT DETAILS BORNER BY FAIR SUPPLY DUCK FIC. ARRONT & DETAILS BORNER BY FAIR SUPPLY DUCK FIC. ARRONT DETAILS BORNER BY FAIR SUPPLY DUCK FIC. ARRONT DETAILS BORNER BY FAIR SUPPLY DUCK FIC. ARRONT DETAILS BORNER BY FAIR SUPPLY DUCK FIC. ARRONT DETAILS BORNER BY FAIR SUPPLY DUCK FIC. ARRONT DETAILS BORNER BY FAIR SUPPLY DUCK FIC. ARRONT DETAILS BORNER BY FAIR SUPPLY DUCK FIC. ARRONT PORT FIRMS FOR FITCH BURNING SYSTEM WAS BY MATERIAL SUPPLY FOR BOULER WAS DUCK FOR FITCH BURNING SYSTEM WAS BOX PETAILS FOR BOOK FIRMS FOR FOR BULER WAS DUCK FOR FITCH FOR FITCH BURNING SYSTEM WAS DUCK FOR FITCH FOR FITCH BURNING SYSTEM WAS DUCK FOR FITCH FOR FITCH BURNING SYSTEM WAS BURNER FOR FOR FITCH BURNING SYSTEM WAS DUCK FOR FITCH FOR FITCH BURNING SYSTEM WAS DUCK FOR FITCH FOR FITCH BURNING SYSTEM TO SHOULD SHOW FOR BURNING FOR FITCH BURNING SYSTEM TO SHOULD SHOW FOR BU				. •	19-11-5	19-11-5
DETAILS OF COLD AIR DUCT FEONT WALL SUPPORT CASING SOOT BLOWER CLARAGE FAN SOOT BLOWER CLARAGE FAN SOOT BLOWER CLARAGE FAN SOOT BLOWER CFC. B. SOOT BLOWER CFC. B. SOOT BLOWER CFC. B. SOOT BLOWER CFC. B. SOOT BLOWER CFC. B. SOOT BLOWER CFC. B. SOOT BLOWER CFC. B. SOOT BLOWER CFC. B. SOOT BLOWER CFC. B. SOOT BLOWER CFC. B. SOOT BLOWER CFC. B. BATAILS OF BOILER FUEL SYSTEM ISTAILS OF BOILER FUEL SYSTEM COLORIAN FOR HOUSE PLING & FLOOR PLAN HAS SOOT CHEVATIONS DETAILS CELEVATIONS DETAILS OF FUUNDATIONS FOR ADDITIONAL BOILER BLAKE, C. A. GENERAL DESIGN, OF ADDITION TO BOILER HOUSE DETROIT STORER DETROIT STORER DETROIT STORER DETROIT STORER DETROIT STORER DETROIT STORER DETROIT STORER DETROIT STORER DETROIT STORER DETROIT STORER DETROIT STORER DETROIT STORER DETROIT STORER DETROIT STORER DETROIT STORER DETROIT OF BURNERS & FORNACE FOR 350 PP BOILER WABGE, C. B. ARROMT OF BURNERS & FORMACE FOR 350 PP BOILER WABGE, C. B. "ARROMT OF BURNERS & FORMACE FOR BOILER "ARROMT OF BURNERS & FORMACE FOR BOILER "ARROMT OF BURNERS & FORMACE FOR BOILER "ARROMT OF BURNERS & FORMACE FOR BOILER "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL UL BAM "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL UL BAM "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL UL BAM "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL UL BAM "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL UL BAM "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL UL BAM "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL UL BAM "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL UL BAM "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL UL BAM "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL UL BAM "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL UL BAM "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL UL BAM "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL UL BAM "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL UL BAM "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL UL BAM "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL UL BAM "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL UL BAM "ASSEMBLY OF "I SAR. ACID SLUDGE	l	*	" PILING PLAN FOR BOILER	w	19-0-18	19-11-6
DETAILS OF COLD AIR DOCT FRONT WALL SUPPORT CASING SOOT BLOWER CLARAGE FAN CARAGE FAN SOOT BLOWER CLARAGE FAN CARAGE FAN SOOT BLOWER CARAGE FAN SOOT BLOWER CARAGE FAN CARAGE FAN SOOT BLOWER CARAGE FAN CARAGE FAN SOOT BLOWER CARAGE FAN CARAGE FAN CARAGE FAN CARAGE FAN CARAGE TOUNDATIONS FOR OLD FYTCH TANK CARAGE THE PIPING DETAILS BE TANK & POWER HOUSE FULLY OF BOILER BLAKE CO. 19 OFTHILS OF FUNDATIONS FOR ADDITIONAL BOILER BLAKE C. C. 19 CENERAL DESIGN OF ADDITION TO BOILER HOUSE CARAGE FAN CARAGE FAN CARAGE FAN CARAGE FAN CARAGE FAN CARAGE FAN CARAGE FAN CARAGE FAN CARAGE FAN CARAGE				R. S. Co.	126384-4	19-11-7
FRONT WALL SUPPORT CASING CASING SOOT BLOWER CASING SOOT BLOWER CFC. 8-1- FOUNDATIONS FOR OIL & PITCH TANK DETAILS OF BOLLEE FUEL SYSTEM MISC. PIPING DETAILS B. TANK & POWER HOUSE PLING & FLOOR PLAN "DETAILS OF FOUNDATIONS FOR ADDITIONAL BOLLER BLAKC.C. 9- "GENERAL DESIGN OF ADDITION TO BOILER HOUSE "DETAILS OF FOUNDATIONS FOR ADDITIONAL BOLLER BLAKC.C. 9- "GENERAL DESIGN OF ADDITION TO BOILER HOUSE "DETAILS OF FOUNDATIONS FOR ADDITIONAL BOLLER BLAKC.C. 9- "GENERAL DESIGN OF ADDITION TO BOILER HOUSE "DETAILS OF FOUNDATIONS FOR ADDITIONAL BOLLER BLAKC.C. 9- "ARROWT OF PLAN FOR 72'x 18' BOILER HOUSE "SETTING PLAN FOR 72'x 18' BOILER HOUSE "ARROWT OF BURNERS BFORNACE FOR 350 P BOILER NABCOLOR "ARROWT OF BURNERS FOR FORMACE FOR 350 P BOILER NABCOLOR "ARROWT OF BURNERS & FORMACE FOR BOILER NABCOLOR "ARROWT OF BURNERS & FORMACE FOR 10' BOILER "ARROWT OF BURNERS & FORMACE FOR 10' BOILER "ARROWT OF BURNERS & FORMACE FOR 10' BOILER "ARROWT OF BURNERS & FORMACE FOR 10' BOILER "ARROWT OF BURNERS & FORMACE FOR 10' BOILER "ARROWT OF BURNERS & FORMACE FOR 10' BOILER "AND LAIR DOOR ASSEMBLY "ARROWT LOSING & SUBGESTED WINDBOX DETAILS "ARROWT LOSING & SUBGESTED WINDBOX DETAILS "ARROWT LOSING & SUBGESTED WINDBOX DETAILS "ARROWT LOSING & SUBGESTED WINDBOX DETAILS "ARROWT LOSING & SUBGESTED WINDBOX DETAILS "ARROWT LOSING & SUBGESTED WINDBOX DETAILS "ARROWT LOSING BURNER BAY & AIR SURPLY DUCT FTC." "ARROWT LOSING BURNERS & FURNACE FOR CLEY TO BOILE "ARROWT PORTIONS OF THE FURNACE FOR THEY TO BOILE "ARROWT OF THING FOR DITCH BURNING SYSTEM "ARROWT OF THE DOOR ASSEMBLY "ARROWT OF THE DOOR FOR DITCH BURNING SYSTEM "ARROWT OF THE PORT THE BOILE FOR THEY TO BOILE "WAND BOX DETAILS FOR 300 MP BOLLER "WAND BOX DETAILS FOR 500 MP BOLLER "ARROW TO BOX DETAILS FOR DITCH BURNING SYSTEM "ARROWT OF THE DOOR ASSEMBLY "ARROWT OF THE PORT OF THE BOLLER FOR THEY TO BOILE "WAND BOX DETAILS FOR 300 MP BOLLER "WAND BOX DETAILS FOR 300 MP BOLLER "WAND BOX DETAILS FOR 300 MP BOLLER "WAND BOX DETAILS FOR	ľ			•	1263×5-2	19-11-8
CASING SOOT BLOWER CLARAGE FAN CARAGE F	l			и	12638 19	19 - 11 - 9
SOOT BLOWER CLARAGE FAN CLARAGE FAN CLARAGE FAN CLARAGE FAN CLARAGE FAN CLARAGE FAN CLARAGE FAN CLARAGE FAN CLARAGE FAN CLARAGE FAN CLARAGE FAN CLARAGE FAN CLARAGE FAN CLARAGE FAN CLARAGE FAN CLARAGE FAN CLARAGE FAN CLARAGE FAN CLARAGE FAN CLARAGE FOLL SYSTEM IN CLARAGE FOLL SYSTEM IN CLARAGE FOLL SYSTEM IN CLARAGE FOLL SYSTEM IN CLARAGE DE DUTING & FLOOR PLAN IN CLEVATIONS CLEVATIONS CLEVATIONAL BOILER BLOCK COMMENDED FOR ADDITIONAL BOILER BLOCK COMMENT OF BURNERS & FORNACE FOR 350 M BOILER WABLE AT CHARAGE FOR BURNERS & FORNACE FOR 350 M BOILER WABLE AT COMMENT OF BURNERS & FORMACE FOR 350 M BOILER COMMENT OF BURNERS & FORMACE FOR 350 M BOILER COMMENT OF BURNERS & FORMACE FOR 350 M BOILER COMMENT OF BURNERS & FORMACE FOR 350 M BOILER COMMENT OF BURNERS & FORMACE FOR 360 BOILER COMMENT OF BURNERS & FORMACE FOR 360 BOILER COMMENT OF BURNERS & FORMACE FOR 360 BOILER COMMENT OF BURNERS & FORMACE FOR 360 BOILER COMMENT OF BURNERS & FORMACE FOR 360 BOILER COMMENT OF BURNERS & FORMACE FOR 360 BOILER COMMENT OF BURNERS & FORMACE FOR 360 BOILER COMMENT OF BURNERS & FORMACE FOR 360 BOILER COMMENT OF BURNERS & FORMACE FOR DUTINES COMMENT OF BURNERS BURNER BAY & AIR SURPLY DUCT STC. COMMENT OF STEAM COMMENT OF STEAM COMMENT OF STEAM COMMENT OF STEAM COMMENT OF STEAM COMMENT OF STEAM COMMENT OF STEAM COMMENT OF STEAM COMMENT OF STEAM COMMENT OF STEAM COMMENTS OF STEAM COMMENT OF STEAM COMMENTS OF STEAM COMMENTS OF STEAM COMMENTS OF STEAM	ı	·				19 - 11 - 11
SOOT BLOWER PIPING TOURDATIONS FOR OIL & PITCH TANK DETAILS OF BOILER FUEL SYSTEM INC. PIPING DETAILS B. TANK & FOWER HOUSE PILING & FLOOR PLAN "I DETAILS OF FOUNDATIONS FOR ADDITIONAL BOILER BLD R.C. C. 19 "GENERAL DESIGN OF ADDITION TO BOILER HOUSE "DETROIT STOKER "BROS WATERTUBE BOILER "ARRENT OF BURNERS & FORNACE FOR 350 M BOILER WABCO AT PAPED, ARRENT OF RILEY STEAM GENTTG UNIT R.S. CO. OF "ARRENT OF BURNERS & FORMACE FOR 350 M BOILER WABCO AT PAPED, ARRENT OF RILEY STEAM GENTTG UNIT R.S. CO. OF "ARRENT OF BURNERS & FORMACE FOR BOILER "ARRENT OF BURNERS & FORMACE FOR BOILER "ARRENT OF BURNER WITH S-5281 & B-7 BLOCK "ARRENT OF BURNER WITH S-5281 & B-7 BLOCK "ARRENT OF BURNER WITH S-5281 & B-7 BLOCK "ARRENT OF BURNER WITH S-5281 & B-7 BLOCK "ARRENT OF BURNER WITH S-5281 & B-7 BLOCK "ARRENT OF BURNER WITH S-5281 & B-7 BLOCK "ARRENT OF BURNER WITH S-5281 & B-7 BLOCK "ARRENT OF BURNER WITH S-5281 & B-7 BLOCK "ARRENT OF BURNER WITH S-5281 & B-7 BLOCK "ARRENT OF BURNER WITH S-5281 & B-7 BLOCK "ARRENT OF BURNER WITH S-5281 & B-7 BLOCK "ARRENT OF BURNER WITH S-5281 & B-7 BLOCK "ARRENT OF BURNER BONG MARRANGEMENT R.S. CA 12 "GENERAL ARRENT OF RILEY TYPE BO" BOILER "ARRENT OF BURNERS BONG MARRANGEMENT R.S. CA 12 "GENERAL ARRENT OF RILEY TYPE BO" BOILER "ARRENT OF TYPING FOR DISTRIPLY DUCT FTC. "ARRENT OF TYPING FOR DISTRIPLY DUCT FTC. "ARRENT OF TYPING FOR DISTRIPLY DUCT FTC. "ARRENT OF TYPING FOR DISTRIPLY DUCT FTC. "ARRENT OF TYPING FOR DISTRIPLY DUCT FTC. "ARRENT OF TYPING FOR DISTRIPLY DUCT FTC. "ARRENT OF TYPING FOR DISTRIPLY DUCT FTC. "ARRENT OF TYPING FOR DISTRIPLY DUCT FTC. "ARRENT OF TYPING FOR DISTRIPLY DUCT FTC. "ARRENT OF TYPING FOR DISTRIPLY DUCT FTC. "ARRENT OF TYPING FOR DISTRIPLY DUCT FTC. "ARRENT OF TYPING FOR DISTRIPLY DUCT FTC. "ARRENT OF TYPING FOR DISTRIPLY DUCT FTC. "ARRENT OF TYPING FOR DISTRIPLY DUCT FTC. "ARRENT OF TYPING FOR DISTRIPLY DUCT FTC. "ARRENT OF TYPING FOR DISTRIPLY DUCT FTC. "ARRENT OF TYPING FOR DISTRIPLY DUCT FTC. "ARRENT OF TYPING FOR			" Spor Blowse		· ·	-
SOOT BLOWER PIPING PITCH TANK TROUMDATIONS FOR CIL & PITCH TANK DETRILS OF BOILER FUEL SYSTEM TISK. PIPING DETAILS BETAIN & POWER HOUSE PILING & FLOOR PLAN "BETAINS OF FOUNDATIONS FOR ADDITIONAL BOILER BLANK, SOON "BETAILS OF FOUNDATIONS FOR ADDITION TO BOILER HOUSE "DETROIT STONER BAROS WATERTUBE BOILER "ARROMT OF BURNERS & FORNACE FOR 350 M BOILER NABCO C. "BROS WATERTUBE BOILER "ARROMT OF BURNERS & FORNACE FOR 350 M BOILER NABCO C. "ARROMT OF BURNERS & FORNACE FOR 350 M BOILER NABCO C. "ARROMT OF BURNERS & FORNACE FOR 350 M BOILER NABCO C. "ARROMT OF BURNERS & FORNACE FOR 350 M BOILER NABCO C. "ARROMT OF BURNERS & FORNACE FOR BOILER NABCO C. "ARROMT OF BURNERS & FORNACE FOR BOILER NABCO C. "ARROMT OF BURNERS & FORNACE FOR BOILER NABCO C. "ARROMT OF BURNERS & FORNACE FOR BOILER . "ASSEMBLY OF "I SAR. ACIO SLUDGE TYPE VUEL OIL BRIN . "ASSEMBLY OF "I SAR. ACIO SLUDGE TYPE VUEL OIL BRIN . "ASSEMBLY OF "I SAR. ACIO SLUDGE TYPE VUEL OIL BRIN . "ARROMT LASING & SUBBESTED WINDBOX DETAILS "ARROMT LASING & SUBBESTED WINDBOX DETAILS "ARROMT LASING & SUBBESTED WINDBOX DETAILS "ARROMT LASING & SUBBESTED WINDBOX DETAILS "ARROMT & DETAILS BURNER BUT AIR SUPPLY DUCT STC "ARROMT & DETAILS BURNER BUT AIR SUPPLY DUCT STC "ARROMT & DETAILS BURNER BUT AIR SUPPLY DUCT STC "ARROMT & DETAILS BURNER BUT AIR SUPPLY DUCT STC "ARROMT & DETAILS BURNER BUT AIR SUPPLY DUCT STC "ARROW & DETAILS BURNER BUT AIR SUPPLY DUCT STC "ARROW BURNERS BURNERS & FURNACE FOR KILEY RO BOILE "APPEAR OF DIPING FOR DITCH BURNING SYSTEM "APPEAR OF DUPLERS & FURNACE FOR KILEY RO BOILE "APPEAR OF DUPLERS & FURNACE FOR KILEY RO BOILE "ARROW FOR BURNERS & FURNACE FOR KILEY RO BOILE "ARROW FOR BURNERS & FURNACE FOR KILEY RO BOILE "ARROW FOR BURNERS & FURNACE FOR KILEY RO BOILE "ARROW FOR BURNERS & FURNACE FOR KILEY RO BOILE "ARROW FOR BURNERS & FURNACE FOR KILEY RO BOILE "ARROW FOR BURNERS & FURNACE FOR K	١	•	" CLARAGE FAN			
T FOUNDATIONS FOR OIL & PITCH TANK DEMILS OF BOILER FUEL SYSTEM AREA PIPING DETAILS B. TANK & POWER HOUSE PILING & FLOOR PLAN "ELEVATIONS "DETAILS OF FOUNDATIONS FOR ADDITIONAL BOILER BLE R.C. C. 19 "GENERAL DESIGN OF ADDITION TO BOILER HOUSE "DETROIT STOKER "SETTING PLAN FOR 72'x 18' BOILER "ARROMT OF BURNERS & FORNACE FOR 350 PP BOILER NAB.CO A- "BARSD. ARROMT. OF RILEY STEAM GENTIS UNIT "ARROMT OF BURNERS & FORNACE FOR BOILER "ARROMT OF BURNERS & FORNACE FOR BOILER "ARROMT OF BURNERS & FORNACE FOR BOILER "ARROMT OF BURNERS & FORNACE FOR BOILER "ARROMT OF BURNERS & FORNACE FOR BOILER "ARROMT OF BURNERS & FORNACE FOR BOILER "ARROMT OF BURNERS & FORNACE FOR BOILER "ARROMT OF BURNERS WITH S-52814 B-7 BLOCK "ARROMT OF BURNERS WITH S-52814 B-7 BLOCK "ARROMT OF BURNER WITH S-52814 B-7 BLOCK "ARROMT OF BURNER WITH S-52814 B-7 BLOCK "ARROMT OF BURNERS WITH S-52814 B-7 BLOCK "ARROMT OF BURNERS WITH S-52814 B-7 BLOCK "ARROMT OF BURNERS WITH S-52814 B-7 BLOCK "ARROMT OF BURNERS WITH S-52814 B-7 BLOCK "ARROMT OF BURNERS WITH S-52814 B-7 BLOCK "ARROMT OF BURNERS WITH S-52814 B-7 BLOCK "ARROMT OF BURNERS WITH S-52814 B-7 BLOCK "ARROMT OF BURNERS WITH SUPPLY DUCT FTC. "ARROMT SOURCE SUPPLY DUCT FTC. "ARROMT POOR ASSEMBLY "ARROMT DOOR ASSEMBLY "ARROWT DOOR ASSEMBLY "ARROMT DOOR ASSEMBLY "ARROWT DOOR ASSEMBLY "ARROWT DOOR BURNERS & FURNACE FOR CLEY RO BOILE "ARROW DOOR BURNERS & FURNACE FOR CLEY RO BOILE "ARROWT BOOK ASSEMBLY "ARROWT BOOK ASSEMBLY "ARROWT BOOK ASSEMBLY "ARROWT BOOK ASSEMBLY "ARROWT BOOK ASSEMBLY "ARROWT BOOK ASSEMBLY "ARROWT BOOK ASSEMBLY "ARROWT BOOK ASSEMBLY "ARROWT BOOK ASSEMBLY "ARROWT BOOK ASSEMBLY "ARROWT BOOK ASSEMBLY "ARROWT BOOK ASSEMBLY "ARROWT BOOK ASSEMBLY "ARROWT BOOK ASSEMBLY "ARROWT BOOK ASSEMBLY "ARROWT BOOK ASSEMBLY "ARROWT BOOK ASSEMBLY "ARROWT BOOK ASSEMBLY "ARROWT BOOK ASSEMBL	Ì					
DEMILS OF BOILER FUEL SYSTEM MISC. PIPING DETAILS DETAINS & FOWER HOUSE PILING & FLOOR PLAN "ELEVATIONS "DETAILS OF FOUNDATIONS FOR ADDITIONAL BOILER BLEER R.C. Co. 19 "GENERAL DESIGN OF ADDITION TO BOILER HOUSE "DETROIT STONER "SETTING PLAN FOR 72'x 18' BOILER "BROS WAYERTUBE BOILER "ARROMT OF BURNERS & FORNACE FOR 350 PP BOILER NAB.Co. A. "PAPSD. ARROMT. OF RILEY STEAM GENTIS UNIT "A.S. Co. 0F "N. A. BURNER FOR R.C. Co. "ARROMT OF BURNERS & FORNACE FOR "BO BOILER "A. "ARROMT OF BURNERS & FORNACE FOR "BO BOILER "A. "ARROMT OF BURNERS & FORNACE FOR "BO BOILER "A. "ARROMT OF BURNERS & FORNACE FOR "BO BOILER "A. "ARROMT OF BURNERS & FORNACE FOR "BO BOILER "A. "ARROMT OF BURNER WITH S. S. 28'S & B. T. BLOCK "B. "ARROMT OF BURNER WITH S. S. 28'S & B. T. BLOCK "B. "ARROMT OF BURNER WITH S. S. 28'S & B. T. BLOCK "B. "ARROMT OF BURNER WITH S. S. 28'S & B. T. BLOCK "B. "ARROMT OF BURNER WITH S. S. 28'S & B. T. BLOCK "B. "ARROMT OF BURNER WITH S. S. 28'S & B. T. BLOCK "B. "ARROMT OF BURNER WITH S. S. 28'S & B. T. BLOCK "B. "ARROMT OF BURNER WITH S. S. 28'S & B. T. BLOCK "B. "ARROMT OF BURNER WITH S. S. 28'S & B. T. BLOCK "B. "ARROMT OF BURNERS BURNER BURNER BONLER "B. "ARROMT OF BURNER BURNER BURNER BONLER "B. "ARROMT LOSING & SUBBESTED WINDBOX DETAILS "B. "ARROMT LOSING & SUBBESTED WINDBOX DETAILS "B. "ARROMT LOSING & DONNER BURNER SUPPLY DUST STEM. "B. "ARROMT LOSING & DONNER BURNER SUPPLY DUST STEM. "B. "ARROMT LOSING & DONNER BURNER SUPPLY DUST STEM. "B. "ARROMT LOSING & DONNER BURNING SYSTEM. "B. "ARROMT LOSING & SUBBESTED WINDBOX DETAILS "B. "ARROMT LOSING & SUBBESTED WINDBOX DETAILS "B. "ARROMT LOSING & SUBBESTED WINDBOX DETAILS "B. "ARROMT LOSING & SUBBESTED WINDBOX DETAILS "B. "ARROMT LOSING & SUBBESTED WINDBOX DETAILS "B. "ARROMT SUBBESTED WINDBOX DETAILS FOR DITCH BURNING SYSTEM. "B. "ARROMT SUBBESTED WINDBOX DETAILS FOR DITCH BURNING SYSTEM. "B. "ARROMT SUBBESTED WINDBOX DETAILS FOR DITCH BURNING SYSTEM. "B. "ARROMT SUBBESTED WINDBOX DETAILS "B. "ARROMT SUBBESTED W	l	<i></i> -				
NISC. PIPING DETAILS BY TANK & POWER HOOSE PILING & FLOOR PLAN "DETAILS OF FOUNDATIONS FOR ADDITIONAL BOILER BLAKER, C. C. 19 "GENERAL DESIGN, OF ADDITION TO BOILER HOUSE "DETROIT STORER "SETTING PLAN FOR 72'x 18' BOILER "BROS WATERTUBE BOILER "ARROMT OF BURNERS & FORNACE FOR 350 M BOILER WABCOM." "ARROMT OF BURNERS & FORNACE FOR 350 M BOILER WABCOM." "N. A. BURNER FOR R. C. CO. "ARROMT OF BURNERS & FORNACE FOR "RO" BOILER WABCOM." "N. A. BURNER FOR R. C. CO. "ARROMT OF BURNERS & FORNACE FOR "RO" BOILER "ARROMT OF BURNERS & FORNACE FOR "RO" BOILER "ARROMT OF BURNERS WITH SEREY BROCK "ARROMT OF PIPING FOR PITCH BURNING SYSTEM "ASSEMBLY OF "IS AR. ACID SLUDGE TYPE FUEL OIL BRAK." "AND I AIR DOOR ASSEMBLY "FOUNDATION & FLOOR INSULATION ARRANGEMENT "RS. CO. 19 "FRONT CASING & SUBGESTED WINDBOX DETAILS "RE "FRONT CASING & SUBGESTED WINDBOX DETAILS "RE "FRONT EDETAILS BURNER BOX & AIR SUPPLY DUCT FTC." "ARREST OF FOING FOR DITCH BURNING SYSTEM "ARROWT SYSTEM "ARROWT SYSTEM "ARROWT SYSTEM "ARROWT SYSTEM "ARROWT SYSTEM "ARROWT SYSTEM "ARROWT SYSTEM "ARROWT SYSTE		1	POUNDATIONS FOR CIL & FIICH TARK			
DETAILS OF FOUNDATIONS PLOOR PLAN "DETAILS OF FOUNDATIONS FOR ADDITIONAL BOILER BLANK, C.C. 19 "GENERAL DESIGN, OF ADDITION TO BOILER HOUSE "DETROIT STORER "BROS WATERTUBE BOILER "ARROMT OF BURNERS & FORNACE FOR 350 P BOILER WABCO AT PAPER. ARROMT OF BURNERS & FORNACE FOR 350 P BOILER WABCO AT ARROMT. OF RILEY STEAM GENTIG UNIT "N. A. BURNER FOR R.C.C. "ARROMT OF BURNERS & FORNACE FOR RO BOILER "ARROMT OF BURNERS WITH S-SERY & B-T BLOCK "PIPING FOR PICH BURNING SYSTEM "ASSEMBLY OF "SAR, ASID SLUDGE TYPE FUEL OIL BRANK." "ASSEMBLY OF "SAR, ASID SLUDGE TYPE FUEL OIL BRANK." "FOUNDATION & FLOOR ASSEMBLY "GENERAL ARROMT OF RILEY TYRE BO" BOILER "ROMT CASING & SUBGESTED WINDBOX DETAILS." "ARROMT DETAILS BURNER BAY & AIR SUPPLY DUCT ETC." "ARROMT BURNERS. UNIT Nº 5079. "ARROM BURNERS. UNIT Nº 5079. "ARROW BURNERS. UNIT Nº 5079. "ARROM BURNERS. UNIT Nº 5079. "ARROW BURNERS. UNIT Nº 5079. "ARROW BURNERS. UNIT Nº 5079. "ARROW BURNERS. UNIT Nº 5079. "ARROW BURNERS. UNIT Nº 5079. "ARROW BURNERS. UNIT Nº 5079. "ARROW BURNERS. UNIT Nº 5079. "ARROW BURNERS. UNIT Nº 5079. "ARROW BURNERS. UNIT Nº 5079. "ARROM BURNERS. UNIT Nº 5079. "ARROW BURNERS. UNIT Nº 5079. "ARROW BURNERS. UNIT Nº 5079. "ARROW BURNERS. UNIT Nº 5079. "ARROW BURNERS. UNIT Nº 5079. "ARROW BURNERS. UNIT Nº 5079. "ARROW BURNERS. UNIT Nº 5079. "ARROW BURNERS. UNIT Nº 5079. "ARROW BURNERS. UNIT Nº 5079. "ARROW BURNER BURNERS. UNIT Nº 5079. "ARROW B	l					19-11-11
"DETAILS OF FOUNDATIONS FOR ADDITIONAL BOILER BLAKE, Co. 13 "GENERAL DESIGN, OF ADDITION TO BOILER HOUSE "DETROIT STOKER "SETTING PLAN FOR 72'x 18' BOILER "BROS WATERTUBE BOILER "ARROM'T OF BURNERS FORNACE FOR 350 P BOILER NABCO A- "ARROM'T OF BURNERS FORNACE FOR 350 P BOILER NABCO A- "ARROM'T OF BURNERS FORNACE FOR BOILER NABCO A- "ARROM'T OF BURNERS FORNACE FOR BOILER NABCO A- "ARROM'T OF BURNERS FORNACE FOR BOILER NABCO A- "ARROM'T OF BURNERS FORNACE FOR BOILER NABCO A- "ARROM'T OF BURNERS FORNACE FOR BOILER "A- "ARROM'T OF BURNER WITH S-5284 B-T BLOCK """ PIPING FOR PITCH BURNING SYSTEM "ASSEMBLY OF "I SAR, ACID SLUDGE TYPE FUEL DIL BRM" B- "NO. I AIR DOOR ASSEMBLY "A- "FOUNDATION FLOOR ASSEMBLY "A- "FOUNDATION FLOOR ASSEMBLY "ARROM'T R.S. CO. 12 """ FRONT CASING B SUDGESTED WINDBOX DETAILS "AC """ FRONT CASING B SUDGESTED WINDBOX DETAILS "AC """ FROM DETAILS BURNER BOY FAIR SUPPLY DUCT FTC. "AC """ ARROM'T EDETAILS BURNER BOY FAIR SUPPLY DUCT FTC. "AC """ ARROM'T EDETAILS BURNER BOY BAIR SUPPLY DUCT FTC. "AC """ SLIDING DAMPER UNIT Nº 5079 """ """ APPET, OF FOING FOR FISCH BURNING SYSTEM "B- """ APPET, OF FOING FOR FISCH BURNING SYSTEM "B- """ APPET, OF FOING FOR FISCH BURNING SYSTEM "B- """ APPET, OF FOING FOR FISCH BURNING SYSTEM "B- """ APPET, OF BURNERS OF FURNACE FOR TLEY PO BOILE "A- """ APPERT, OF BURNERS OF FURNACE FOR TLEY PO BOILE "A- """ APPERT OF BURNERS OF FURNACE FOR TLEY PO BOILE "A- """ DIMENSIANS FOR FT BURNING SETEM "B- """ DIMENSIANS FOR FT BURNING FREE TOWN "B- """ DIMENSIANS FOR FT BURNING FREE TOWN "B- """ DIMENSIANS FOR FT BURNING FREE TOWN "B- """ DIMENSIANS FOR FT BURNING FREE TOWN "B- """ DIMENSIANS FOR FT BURNING FREE TOWN "B- """ DIMENSIANS FOR FT BURNING FREE TOWN "B- """ DIMENSIANS FOR FT BURNING FREE TOWN "B- """ DIMENSIANS FOR FT BURNING FREE TOWN "B- """ DIMENSIANS FOR FT BURNING FREE TOWN "B- """ DIMENSIANS FOR FT BURNING FOR THE TOWN "B- """" DIMENSIANS FOR FT BURNING FOR THE TOWN "B- """""""""""""""""""""""""""""""""""	l		MISC. PIPING DETAILS			*
"DETAILS OF FOUNDATIONS FOR ADDITIONAL BOILER BLE R.C. () 9 "GENERAL DESIGN OF ADDITION TO BOILER HOUSE	1			-	1	
"GENERAL DESIGN OF ADDITION TO BOILER HOUSE "DETROIT STORER" "BAOS MITERTUBE BOILER "BARS MITER BOILER NABGO A- "BARGMT OF BURNERS & FURNACE FOR 350 M BOILER NABGO A- "PAPSO. ARROMT. OF RILEY STEAM GENTIS UNIT R.S.C.O. OF- "N.A. BURNER FOR R.C.C.O. "ARROMT OF BURNERS & FORMACE FOR RO BOILER "A- "ARROMT OF BURNERS & FORMACE FOR RO BOILER "A- "ARROMT OF BURNERS WITH S-5284 & 8-7 BLOCK "A- "ARROMT OF BURNER WITH S-5284 & 8-7 BLOCK "A- "ARROMT OF BURNER WITH S-5284 & 8-7 BLOCK "A- "ARROMT OF J. SAR. ASIO SLUDGE TYPE FUEL OIL BAN "B- "ASSEMBLY OF J. SAR. ASIO SLUDGE TYPE FUEL OIL BAN "B- "ASSEMBLY OF J. SAR. ASIO SLUDGE TYPE FUEL OIL BAN "B- "AOIN ATION & FLOOR INSULATION ARRANGEMENT R.S. CO. 12 "FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S. CO. 12 "FRONT CISING & SUBGESTED WINDBOX DETAILS "ABOUT COLD AIR DUCT "ARROMT & BURNER BAY & ARROMT & BURNER BURNER BURNERY DUCT FTC. "BE "COLD AIR DUCT "ARROMT SYSTEM NABOL DETAILS "ARROMT & BURNER BURNER BURNERY DUCT FTC. "BE "ARROMT & DETAILS BURNER BAY & ARROWS STEM "B. "SLIDING DAMPER UNIT Nº 5079 "R. "Nº 2 AIR DOOR ASSEMBLY "B. "Nº 2 AIR DOOR ASSEMBLY "B. "ARROWT & BURNERS & TURNACE FOR RILEY RO BOILE "A- "ARROWT & BURNERS & TURNACE FOR RILEY RO BOILE "A- "ARROWT & BURNERS & TURNACE FOR RILEY RO BOILE "A- "ARROWT & BURNERS & TURNACE FOR RILEY RO BOILE "A- "ARROWT & BURNERS & TURNACE FOR RILEY RO BOILE "A- "ARROWT & BURNERS & TURNACE FOR RILEY RO BOILE "A- "ARROWT & BURNERS & TURNACE FOR RILEY RO BOILE "A- "ARROWT & BURNERS & TURNACE FOR RILEY RO BOILE "A- "ARROWT & BURNERS FOR FLETH FURNACE FOR RILEY RO BOILE "A- "ARROWT & BURNERS & TURNACE FOR RILEY RO BOILE "A- "ARROWT & BURNERS FOR FLETH FURNACE FOR RILEY RO BOILE "A- "ARROWT & BURNERS FOR FLETH FURNACE FOR RILEY RO BOILE "A- "BURNER ROOM TURNACE FOR RILEY - 1/2 " G" DRG "- "BROWT BOILE ROOM TURNACE FOR RILEY - 1/2 " G" DRG "- "BROWT BOILE ROOM TURNACE FOR RILEY - 1/2 " G" DRG "- "BROWT BOILE ROOM TURNACE FOR RILEY - 1/2 " G" DRG "- "BROWT BOILE ROOM TURNACE FOR RILEY - 1/2 " G" DRG "- "BOILE ROOM TURNACE FOR RILEY -		••				19-11-10
"DETROIT STONER "SETTING PLAN FOR 72'x /8' BOILER "BROS WATERTUBE BOILER ARREST OF BURNERS & FORNACE FOR 350 P BOILER WABCO A- PARSO. ARREST. OF RILEY STEAM GENTIS UNIT P.S.Co. OF- "N.A. BURNER FOR P.C.CO. "ARREST OF BURNERS & FORNACE FOR "RO" BOILER "WIND BOX DETAILS FOR 300 HP BOILER "ARREST OF BURNER WITH S-SEES & B.T. BLOCK "ARSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL OIL BRN." "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL OIL BRN." "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL OIL BRN." "FOUNDATION & FLOOR INSULATION ARRANGEMENT P.S.CO. 12 "GENERAL ARREST OF PLIEY TYPE "BO" BOLER "ARROST EDETAILS BURNER BOY BAIR SUPPLY DUCT FTC. "ARROST & DETAILS BURNER BOY BAIR SUPPLY DUCT FTC." "ARROST & DETAILS BURNER BOY BAIR SUPPLY DUCT FTC." "ARROST & DETAILS BURNER BOY BAIR SUPPLY DUCT FTC." "ARROST & DETAILS BURNER BOY BAIR SUPPLY DUCT FTC." "ARROST & DETAILS BURNER BOY BAIR SUPPLY DUCT FTC." "ARROST & DETAILS BURNER BOY BAIR SUPPLY DUCT FTC." "ARROST & DETAILS BURNER BOY BAIR SUPPLY DUCT FTC." "ARROST & DETAILS BURNER BOY BAIR SUPPLY DUCT FTC." "ARROST OF PING FOR TITCH BURNING SISTEM "AP I AIR DOOR ASSEMBLY." "AP I AIR DOOR ASSEMBLY." "AP I AIR DOOR ASSEMBLY." "AP BOUNT OF BURNERS OF TURNACE FOR TILEY RO BOILE." "AP BOY BURNERS OF FURNACE FOR TILEY RO BOILE." "AP I AIR DOOR ASSEMBLY." "AP BURNERS FOR TYPHE FURNACE FOR TILEY RO BOILE." "AND DOOR ASSEMBLY." "SUND BOX DETAILS FOR 300 P. BOLLER "ONNENSIANS FOR FOR TYPHE FURNACE FOR TILEY RO BOILE." "SUND BOX DETAILS FOR 300 P. BOLLER "DINNERS FOR FOR TYPHE FURNACE FOR TILEY RO BOILE." "DINNERS FOR FOR TYPHE FURNACE FOR TILEY RO BOILE." "DINNERS FOR FOR TYPHE FURNACE FOR TILEY RO BOILE." "DINNERS FOR FOR TYPHE FURNACE FOR TILEY RO BOILE." "DINNERS FOR FOR TYPHE FURNACE FOR TILEY G." DER TO DOOR ASSEMBLY." "DINNERS FOR FOR TYPHE FURNACE FOR TILEY G." "DOOR TO THE FORMACE FOR TILEY G." "DOOR TO THE FORMACE FOR TILEY G." "DO THE FORMACE FOR TILEY G." "DO THE FORMACE FOR TILEY G." "DO THE FORMACE FOR TILEY G." "DO THE FORMACE FOR TILEY G	-	"	UETAILS OF FOUNDATIONS FOR ADDITIONAL BOILER BLD	A. C. Ca	19-11-19	19-11:12
"SETTING PLAN FOR 72'x 18' BOILER "BROS WATERTUBE BOILER "ARREST OF BURNERS & FORNACE FOR 350 P BOILER NAB.CO N." "ARSON OF BURNERS & FORNACE FOR 350 P BOILER NAB.CO OF PAPSO. ARREST. OF RILEY STEAM GENTIS UNIT R.S. CO. OF R.S. CO.				L		19-11-2
"BROS WATERTUBE BOILER ARREST OF BURNERS & FORNACE FOR 350 M BOILER NABGO M. "PAPSD. ARREST. OF RILEY STEAM GENRIG UNIT R.S. CO. OF- "N. A. BURNER FOR P.C.CO. "ARREST OF BURNERS & FORNACE FOR RO BOILER "NIND BOX DETAILS FOR 300 M P BOILER "ARREST OF BURNER WITH S-5284 & 8-7 BLOCK "ARREST OF BURNER WITH S-5284 & 8-7 BLOCK "ARREST OF PIPING FOR PITCH BURNING SYSTEM "ASSEMBLY OF SAR. ACID SLUDGE TYPE FUEL UIL BRN "B- "AOL AIR DOOR ASSEMBLY "FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S. CO. 12 "GENERAL ARREST OF RILEY TYPE "BO" BOLER "FRONT CASING & SUBGESTED WINDBOX DETAILS "ES "COLD AIR DUCT "REY TYPE "BO" BOLER "BO" "ARREST & DETAILS BURNER BAY & AIR SUPPLY DUCT STC. "ES "ARREST & DOOR ASSEMBLY NABOR DITAILS "BO" "ARRESTAL DIRECT NABOR DITCH BURNING SYSTEM "BO" "APPER OF DOOR ASSEMBLY "BOWNER BURNING SYSTEM "BO" "APPERT OF BURNERS OF TOR TYPE BURNING SYSTEM "BO" "APPERT OF BURNERS OF TOR TYPE BURNING SYSTEM "BO" "APPERT OF BURNERS OF TOR TYPE BURNING SYSTEM "BO" "APPERT OF BURNERS OF TOR TYPE BURNING SYSTEM "BO" "APPERT OF BURNERS OF TOR TYPE BOLER" AND THE STORY "BOILE "AND THE STORY "BO" "APPERT OF BURNERS OF TOR TYPE BOLLE "AND TYPE SOON "BOUR "BOLLER" "AND TYPE SOON "BO" "SINGLE ACTING TYPE BOLLE TRIPLEY - 1/2" 6" D.B.C. 3 "SINGLE ACTING TYPE BOLLE TRIPLEY - 1/2" 6" D.B.C. 3	1	/*	DETROIT STOKER			
ARRENT OF BURNERS & FURNACE FOR 350 P BOILER NABGO A- PAPSD. ARRENT. OF RILEY STEAM GENATE UNIT R.S. CO. OF "N. A. BURNER FOR F.C. CO. ARRENT OF BURNERS & FURNACE FOR R.O. BOILER "N. A. BURNER FOR BURNERS & FURNACE FOR R.O. BOILER "ARRENT OF BURNER WITH S-5288 & B-7 BLOCK "ARRENT OF BURNER WITH S-5288 & B-7 BLOCK "ARRENT OF BURNER WITH S-5288 & B-7 BLOCK "ARRENT OF BURNER WITH S-5288 & B-7 BLOCK "ARRENT OF BURNER WITH SURVING SYSTEM "ASSEMBLY OF SAR. ACIO SLUDGE TYPE FUEL DIL BRN." "AND AIR DOOR ASSEMBLY "FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S. CO. 12 "GENERAL ARRENT OF RILEY TYPE BO" BOLLER "FRONT CISING & SUBBESTED WINDBOX DETAILS "REGULATION ARRANGEMENT R.S. CO. 12 "ARRENT EDETAILS BURNER BAY & AIR SUPPLY DUCT FTC. "REGULATION ARRANGEMENT R.S. CO. 13 "ARRENT EDETAILS BURNER BAY & AIR SUPPLY DUCT FTC. "REGULATION BURNER SYSTEM NR. P.C.O. 13 "ARRENT EDETAILS BURNER BAY & AIR SUPPLY DUCT FTC. "REGULATION GRAPH SEEMBLY REGULATION FOR JUTCH BURNING SYSTEM "B. "SLIDING DAMPER ONT Nº 5079 "ARRENT OF TPING FOR JUTCH BURNING SYSTEM "B. "ARRENT OF TPING FOR JUTCH BURNING SYSTEM "B. "ARRENT OF TPING FOR JUTCH BURNING SYSTEM "B. "ARRENT OF TPING FOR JUTCH BURNING SYSTEM "B. "ARRENT OF TPING FOR JUTCH BURNING SYSTEM "B. "ARRENT OF TPING FOR JUTCH BURNING SYSTEM "B. "ARRENT OF TPING FOR JUTCH BURNING SYSTEM "B. "ARRENT OF TPING FOR JUTCH BURNING SYSTEM "B. "ARRENT OF TPING FOR JUTCH BURNING SYSTEM "B. "SINGLE ACTING TYDEAOLIC TRIPLEX - 1/2" 6" D.B.G. 3 T. BOWER ROOM "PEDEOLIC TRIPLEX - 1/2" 6" D.B.G. 3 T. BOWER ROOM "PEDEOLIC TRIPLEX - 1/2" 6" D.B.G. 3	ł			_	, -	
PAPSO. ARAGMT. OF RILEY STEAM GENTIS UNIT R.S.CO OF "N.A. BURNER FOR R.C.CO. "ARAGMT OF BURNERS & FURNACE FOR RO BOILER "ARAGMT OF BURNERS WITH S-5288 & B-7 BLOCK "ARAGMT OF BURNER WITH S-5288 & B-7 BLOCK "ARAGMT OF BURNER WITH S-5288 & B-7 BLOCK "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE KUEL OIL BRM." B- "No. I AIR DOOR ASSEMBLY "FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S.CO. IZ "GENERAL ARREST OF RILEY TYPE "BO" BULER "FRONT CASING & SUBGESTED WINDBOX DETAILS "ARAGMT & DETAILS BURNER BOY & AIR SUPPLY DUCT FTC." "ARAGMT & DETAILS BURNER BOY & AIR SUPPLY DUCT FTC." "ARAGMT & DETAILS BURNER BOY & AIR SUPPLY DUCT FTC." "ARAGMT & DOOR HSSEMBLY "AREST. OF PIPING FOR DITCH BURNING SYSTEM "AREST. OF PIPING FOR DITCH BURNING SYSTEM "AREST. OF PIPING FOR DITCH BURNING SYSTEM "ARAGMT OF BURNERS & FURNACE FOR RULEY RO BOILD "NO BOX DETAILS FOR 300 P BOYLER "NIND BOX DETAILS FOR 300 P BOYLER "SINGLE ACTING ITDEAULY TRIPLEY - 1/2" 6" D.B.G. 3 T. BOYMER ROOM	ĺ	11			ł I	19-11-2.
" N. A. BURNER FOR R.C.CO. "ARREMT OF BURNERS & FORMACE FOR "RO" BOILER "ARREMT OF BURNERS & FORMACE FOR "RO" BOILER "ARREMT OF BURNER WITH S. SERY & B. T. BLOCK "ARREMT OF BURNER WITH S. SERY & B. T. BLOCK "ARREMT OF BURNER WITH S. SERY & B. T. BLOCK "ARREMT OF BURNER WITH S. SERY & B. T. BLOCK "ARREMT OF FINAL ACID SLUDGE TYPE FUEL OIL BAN "B. "AC. I AIR DOOR ASSEMBLY "FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S. CO. 12 "GENERAL ARREST OF RILEY TYPE "RO" BOLER "COLD AIR DUCT "RO" "ARREST CASING & SUBBESTED WINDBOX DETAILS "RO" "COLD AIR DUCT "RO" "ARREST DETAILS BURNER BAY & AIR SUPPLY DUCT FTC. "RO" "ARREST DETAILS BURNER BAY & AIR SUPPLY DUCT FTC. "RO" "ARREST OF PINAL SYSTEM NR. R.C.CO. 19 "NATERIAL SWEET "RO" "NATERIAL SWEET "RO" "NATERIAL SWEET "RO" "ARREST OF PINAL FOR TITCH BURNING SISTEM "B. "ARREST OF BURNERS & FURNACE FOR RILEY RO BOILE "A. "NO BAY DETAILS FOR 300 P. BOLER "DINBURSIANS FOR FLATILS FOR 300 P. BOLER "SINGLE ACTIVE TYDEAULY TRIPLEX - 1/2" 6" D.B.G. 3 T. BOLERE ROOM "B.			ARREMT OF BURNERS & FURNACE FOR 350 P BOILER			
" N. A. BURNER FOR R.C.CO. "ARREMT OF BURNERS & FURNACE FOR "RO" BOILER "WIND BOX DETAILS FOR 300 HP BULER "ARBENT OF BURNER WITH S-5281 & B-7 BLOCK "PIPING FOR PITCH BURNING SYSTEM "ASSEMBLY OF "I SAR. ACID SLUDGE TYPE FUEL DIL BRN "B- "No. I AIR DOOR ASSEMBLY "FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S. CO. 12 "GENERAL ARREST OF RILEY TYPE "BO" BOLLER "FRONT CASING & SUBBESTED WINDBOX DETAILS "REG "COLD AIR DUCT "REG "ARREST DETAILS BURNER BAY & AIR SUPPLY DUCT FTC. "REG "TOLL HANDLING SYSTEM N.P. P.C.CO. 19 "NABORT & DOOR ASSEMBLY "RS "SLIDING DAMPER UNIT Nº 5079 "RS "ARREST OF BURNERS & FURNACE FOR TILEY "RO" BOILER "NO! AIR DOOR ASSEMBLY "RS "ARREST OF BURNERS & FURNACE FOR TILEY "RO" BOILER "DINGLE ACTING TYPDROLIC TRIPLEX - 1/2" 6" D.B.C. 3 "SINGLE ACTING TYPDROLIC TRIPLEX - 1/2" 6" D.B.C. 3 T. BOISSER ROOM "P	_	•	PAPSO. ARROMT. OF MILEY STEAM GENATE UNIT			
"ARREST OF BURNERS & FORMACE FOR RO BOILER "A- "WIND BOX DETAILS FOR 300 HP BOILER "A- "ARREST OF BURNER WITH S-528\$ & B-7 BLOCK "PINA FOR PITCH BURNING SYSTEM "B- "ASSEMBLY OF "SAR, ACID SLUDGE TYPE FUEL DIL BRM "B- "NO. I AIR DOOR ASSEMBLY "ROUNDATION & FLOOR INSULATION ARRANGEMENT R.S. CO. 12 "GENERAL ARREST OF RILEY TYPE "BO" BOILER "ROUNDATION & SUBBESTED WINDBOX DETAILS "ROUND GENERAL SURVEY BURNER BAY & AIR SUPPLY DUCT FTC. "ROUT FOUND SYSTEM NR. P.C.CO. 19 "ARREST & DETAILS BURNER BAY & AIR SUPPLY DUCT FTC. "ROUT FOUND SYSTEM NR. P.C.CO. 19 "NATERIAL SHEET WITT Nº 5079 "ROUND SYSTEM "BOY NABG. 18 "SLIDING DAMPER ONT Nº 5079 "ROUND SYSTEM "BOY NO POR AIR DOOR ASSEMBLY "ROUND SYSTEM "BOY NO POR BURNERS & FURNACE FOR TILEY RO BOILE "A "NO DOOR ASSEMBLY "ROUND SYSTEM "A "NO DOOR ASSEMBLY "ROUND SYSTEM "BOY NO POR BURNERS & FURNACE FOR TILEY RO BOILE "A "UND BOX DETAILS FOR 300 PP BOILER "A "OF I AIR DOOR ASSEMBLY "ROUND SYSTEM "BOY NO POR BURNERS & FURNACE FOR TILEY RO BOILE "A "ON BURNERS FOR TYPDROUP TRIPLEX - 1/2" 6" D.B.C. 3 "SINGLE ACTIVE TYPDROUP TRIPLEX - 1/2" 6" D.B.C. 3 "T. BOY REST. DOOR 19 DEADLE TRIPLEX - 1/2" 6" D.B.C. 3	l	11		1	1	-19-11-2c
"WIND BOX DETAILS FOR 300 HP BOILER "A-GARDEN OF BURNER WITH S-SERY & B-7 BLOCK "B-1 ARREST OF BURNER WITH S-SERY & B-7 BLOCK "B-1 ARREST OF BURNER WITH S-SERY & B-7 BLOCK "B-1 ARREST OF BURNER SYSTEM "B-1 ASSEMBLY OF "I SAR, ASID SLUDGE TYPE FUEL OIL BRN "B-1 NO. I AIR DOOR ASSEMBLY "FOUNDATION & FLOOR ASSEMBLY THE "BO" BOILER "ROW FRONT CASING & SUBGESTED WINDBOX DETAILS "ROW FRONT CASING & SUBGESTED WINDBOX DETAILS "ROW ARREST DUCT LIC." "ARREST & DETAILS BURNER BAY & AIR SUPPLY DUCT LIC." "ARREST & DETAILS BURNER BAY & AIR SUPPLY DUCT LIC." "ARREST OF BURNERS WITT Nº 5079 "ROW ABG /B "SLIDING DAMPER, UNIT Nº 5079 "ROW ARREST, OF PIPING FOR DITCH BURNING SYSTEM "B-1 AIR DOOR ASSEMBLY" "APPET, OF BURNERS OF PITCH BURNING SYSTEM "B-1 AIR DOOR ASSEMBLY "ARREST OF BURNERS OF FURNACE FOR TILEY RO BOILE "A-1 AIR DOOR ASSEMBLY "ARREST OF BURNERS OF FURNACE FOR TILEY RO BOILE "A-1 AIR DOOR ASSEMBLY "ARREST OF BURNERS FOR FLETH TOWNS "A-1 DIMENSIONS FOR FLETH TOWNS "A-1 DIMENS "A-	١	**				
"WIND BOX DETAILS FOR 300 HP BOILER "ARRENT OF BURNER WITH S-5288 & B-7 BLOCK B-1 ARRENT OF BURNER WITH S-5288 & B-7 BLOCK B-1 ARRENT OF PIPING FOR PITCH BURNING SYSTEM B-1 ASSEMBLY SAR. ASID SLUDGE TYPE FUEL OIL BRN. "B-1 NO. AIR DOOR ASSEMBLY "ROUNDATION & FLOOR INSULATION ARRANGEMENT R.S. CO. 2 "GENERAL ARREST OF RILEY TYRE "BO" BOLLER "ROUNDATION & SUBJECT BOOK DETAILS "ROUT FROM COLD AIR DUCT "ROUT ARREST & DURNER BOY & AIR SUPPLY DUCT FTC. "ROUT ARREST & DURNER BOY & AIR SUPPLY DUCT FTC. "ROUT FOR THE BOY OF THE BOY OF THE BURNER SYSTEM N.F. P.C.CO. 9 NAB. G. IS "STEM N.F. P.C. G. IS "STEM N.F. P.C. G. IS "ARREST OF TOPING FOR TITCH BURNING SYSTEM "ROUT ARREST OF TOPING FOR TITCH BURNING SYSTEM "ROUT ARREST OF BURNERS & FURNACE FOR RULEY RO BOIL "A. G. D.S. G. IS "SINGLE ACTIVE TYDEAULIC TRIPLEX - 1/2" 6" D.B.G. 3 T. BOILER ROOM N.F. CO. D.S. G. T. BOILER ROOM N.F. CO. D.S. G. T. BOILER ROOM N.F. CO. D.S. G. T. BOILER ROOM N.F. CO. D.S. G. T. BOILER ROOM N.F. CO. D.S. G. T. BOILER ROOM N.F. CO. D.S. G. T. BOILER ROOM N.F. CO. D.S. G. T. G. T. G. T. G. T. G. T. G. T.	1	"	ARREMT OF BURNERS & FURNACE FOR RO BOILER		i	
"ARRENT OF BURNER WITH S-5288 & B-7 BLOCK "PIPIND FOR PITCH BURNING SYSTEM "ASSEMBLY OF "I SAR. ASIO SLUDGE TYPE FUEL DIL BRN "B- "No. I AIR DOOR ASSEMBLY "FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S. CO. 12 "GENERAL ARREST OF RILEY TYPE "BO" BOLLER "REGULATION ARRANGEMENT R.S. CO. 12 "FRONT CISING & SUBGESTED WINDBOX DETAILS "REGULATION ARRANGEMENT REGULATION REGULATIO		//	The part of the state of the st			19-11-25
" " " PIPING FOR PITCH BURNING SYSTEM " B- " ASSEMBLY OF " SAR. ASID SLUDGE TYPE FUEL DIL BRN " B- " NO. I AIR DOOR ASSEMBLY " R. " FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S. CO. 12 " GENERAL ARREST OF RILEY TYPE "RO" BOLLER " 126 " FRONT CASING & SUBGESTED WINDBOX DETAILS " 126 " COLD AIR DUCT " 126 " ARREST & DETAILS BURNER BAY AIR SUPPLY DUCT FTC. " 126 " T. FUEL HANDLING SYSTEM NR. R.C.CO. 19 " NATERIAL SHEET NAME ON NO. NO. NO. NO. NO. NO. NO. NO. NO.	1	<i>_</i>				
" ASSEMBLY OF # SAR. ASID SLUDGE TYPE FUEL OIL BRN " BOWN ON ARE DOOR ASSEMBLY " FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S. CO. 12 "GENERAL ARREST OF RILEY TYPE "BO" BOLLER " 26 "FRONT CASING & SUBBESTED WINDBOX DETAILS " 26 "COLD AIR DUCT " 126 "ARREST & DETAILS BURNER BAY & AIR SUPPLY DUCT FTC. " 126 "T. FUEL HANDLING SYSTEM NR. P.C.CO. 19 BP. MATERIAL SWEET NAB. " 18 "SLIDING DAMPER UNIT Nº 5079 " P. "Nº 2 AIR DOOR ASSEMBLY " 23 "ARREST OF PIPING FOR DITCH BURNING STEM " B. "Nº 1 AIR DOOR ASSEMBLY " 25 "ARREST OF BURNERS & FURNACE FOR DIEY " PO BOILE " A. "WIND BOX DETAILS FOR 300 / BOULER " A. "DIMENSIONS FOR FL & FH FUMPS IS " A. "SINGLE ACTING HYDRAULIC TRIPLEX - 1/2" 6" D.B.C. 3 T. BOIMER COOM " 19	1					
"No. I AIR DOOR ASSEMBLY "FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S. CO. 12 "GENERAL ARREST OF RILEY TYRE "BO" BOLLER " 126 "FRONT CASING & SUBBESTED WINDBOX DETAILS " 126 "COLD AIR DUCT " 126 "ARREST & DETAILS BURNER BOX & AIR SUPPLY DUCT ETC. " 126 "T. FUEL HANDLING SYSTEM N.P. P.C.CO. 19 BP. MATERIAL SWEET NABG. 18 "SLIDING DAMPER UNIT Nº 5079 " 18 "SLIDING DOOR ASSEMBLY " 23 "ARREST OF TIPING FOR DITCH BURNING SYSTEM " 18 "Nº 1 AIR DOOR ASSEMBLY " 25 "Nº 1 AIR DOOR ASSEMBLY " 18 "WIND BOX DETAILS FOR 300 IP BOLLER " 19 "DIMENSIONS FOR FL & FH TUMPS I.P. CO. D.S. "SINGLE ACTING PYDRAULIC TRIPLEX - 1/2" 6" D.B.C. 3 "T. BOIMER ROOM 19	1	//				19-11-32
"FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S. CO. 12 "GENERAL ARREST OF RILEY TYPE BO" BOLLER "26 "FRONT CASING & SUBBESTED WINDBOX DETAILS "26 "ARREST & DETAILS BURNER BOX & AIR SUPPLY DUCT FTC "26 "T. FUEL HANDLING SYSTEM N.P. P.C.CO. 13 BP. MATERIAL SWEET NABG. "SLIDING DAMPER, UNIT Nº 5079 "28 "Nº 2 AIR DOOR ASSEMBLY "28 "ARREST, OF PRING FOR DITCH BURNING SYSTEM "38 "ARREST, OF BURNERS & FURNACE FOR RILEY RO BOILE "40 "WIND BOX DETAILS FOR 300 PROLER "40 "DIMENSIONS FOR FLOOR FOR DITCH BURNING SYSTEM "40 "OMENSIONS FOR FLOOR BURNING SYSTEM "40 "OMENSIONS FOR FLOOR STEPLEY - 1/2" 6" D.B.C. 3 "SINGLE ACTING HYDROLIC TRIPLEY - 1/2" 6" D.B.C. 3	1	"	ASSEMBLY OF TI SAR. ACID SLUDGE TYPE FUEL UIL BRN		-	19-11-3
"GENERAL ARREST OF RILEY TYPE "BO" BOLLER " 126 "FRONT CASING & SUBGESTED WINDBOX DETAILS " 126 "COLD AIR DUCT " ARREST & BURNER BOY & AIR SUPPLY DUCT ETC. " 126 "T. FUEL HANDLING SYSTEM NP. R.C.CO. 19 BP. MATERIAL SWEET NABGES "SLIDING DAMPER UNIT Nº 5079 " R "Nº 2 AIR DOOR ASSEMBLY " 23 "ARREST OF PING FOR JITCH BURNING SYSTEM " B- "ARREST OF BURNERS & FURNACE FOR DILEY RO BOIL " A- "WIND BOX DETAILS FOR 300 P BOLLER " DIMENSIONS FOR FL & FH FUMPS "SINGLE ACTING TYPEAULIC TRIPLEX - 1/2" 6" D.B.C. 3 "T. BOIMER ROOM " 19	1	,,	No. 1 AIR DOOR ASSEMBLY		F	19-11-3
" FRONT CASING & SUBGESTED WINDBOX DETAILS " 126 " COLD AIR DUCT " 126 " ARREST & DETAILS BURNER BOX & AIR SUPPLY DUCT FTC. " 126 "T. FUEL HANDLING SYSTEM N.P. P.C.G. 19 BP. MATERIAL SWEET NABG 16 " SLIDING DAMPER UNIT Nº 5079 " P. " Nº 2 AIR DOOR ASSEMBLY " 23 " ARREST, OF PING FOR DITCH BURNING SYSTEM " B. " ARREST, OF BURNERS & FURNACE FOR RILLY RO BOILE " A. " WIND BOX DETAILS FOR 300 H BOYLER " P.C.D.S. " DIMENSIONS FOR FLEFTH TOMPS 1.P.C.D.S. " SINGLE ACTING HYDRAULIC TRIPLEX - 1/2" 6" D.B.G. 3 " T. BOIMER ROOM " 19		~	FOUNDATION & FLOOR INSULATION ARRANGEMENT			i i
" FRONT CASING & SUBGESTED WINDBOX DETAILS " 126 " COLD AIR DUCT " 126 " ARREST & DETAILS BURNER BOX & AIR SUPPLY DUCT FTC. " 126 "T. FUEL HANDLING SYSTEM N.P. P.C.G. 19 BP. MATERIAL SWEET NABG 16 " SLIDING DAMPER UNIT Nº 5079 " P. " Nº 2 AIR DOOR ASSEMBLY " 23 " ARREST, OF PING FOR DITCH BURNING SYSTEM " B. " ARREST, OF BURNERS & FURNACE FOR RILLY RO BOILE " A. " WIND BOX DETAILS FOR 300 H BOYLER " P.C.D.S. " DIMENSIONS FOR FLEFTH TOMPS 1.P.C.D.S. " SINGLE ACTING HYDRAULIC TRIPLEX - 1/2" 6" D.B.G. 3 " T. BOIMER ROOM " 19	.[//			1	19-11-30
" COLD AIR DUCT " 126 " ARREST & DETAILS BURNER BAY & AIR SUPPLY DUCT ETC. " 126 T. FUEL HANDLING SYSTEM NP. P.C.C. 19 BP. MATERIAL SHEET NABCO !! 18 " SLIDING DAMPER UNIT Nº 5079 " P. " Nº 2 AIR DOOR ASSEMBLY " 25 " ARREST, OF PIPING FOR LITCH BURNING SYSTEM " B. " ARREST, OF BURNERS & FURNACE FOR TILEY RO BOILE " A. " WIND BOX DETAILS FOR 300 H. BOILER " D.B.C. 3 " SINGLE ACTING HYDRAULIC TRIPLEX - 1/2" 6" D.B.C. 3 T. BOIMER ROOM 19].	"			Y	19-11-3:
T. FUEL HANDLING SYSTEM N.P. Z.C.G. 19 BP. MATERIAL SWEET NABG. 16 "SLIDING DAMPER UNIT Nº 5079 "R. " Nº 2 AIR DOOR HSSEMBLY "R. " ARREST. OF PPING FOR TITCH BURNING SYSTEM "B. " ARREST. OF BURNERS & FURNACE FOR RILEY RO BOILE "A. " WIND BOX DETAILS FOR 300 H BOILER "A. " DIMENSIANS FOR FLORH TUMPS I.R. CO. D.S. " SINGLE ACTING HYDRAULIC TRIPLEX - 1/2" x 6" D.B.G. 3 T. BOIMER ROOM "B.		_	COLD AIR DUCT		1263-15	J9-II-3E
T. FUEL HANDLING SYSTEM N.P. Z.C.G. 19 BP. MATERIAL SWEET NABG. 16 "SLIDING DAMPER UNIT Nº 5079 "R. " Nº 2 AIR DOOR HSSEMBLY "R. " ARREST. OF PPING FOR TITCH BURNING SYSTEM "B. " ARREST. OF BURNERS & FURNACE FOR RILEY RO BOILE "A. " WIND BOX DETAILS FOR 300 H BOILER "A. " DIMENSIANS FOR FLORH TUMPS I.R. CO. D.S. " SINGLE ACTING HYDRAULIC TRIPLEX - 1/2" x 6" D.B.G. 3 T. BOIMER ROOM "B.		."	ARREMT & DETAILS BURNER BOX & AIR SUPPLY DUCT ETC.			19-11-35
BP. MATERIAL SHEET "SLIDING DAMPER UNIT Nº 5079 "Nº 2 AIR DOOR ASSEMBLY "ARRET. OF TIPING FOR TITCH BURNING STEEM "ARRET. OF BURNERS & FURNACE FOR TILEY RO BOILE "ARRET. OF BURNERS & FURNACE FOR TILEY RO BOILE "WIND BOX DETAILS FOR 300 H BOILER "DIMENSIONS FOR FLOFH TUMPS "SINGLE ACTING HYDRAULIC TRIPLEX - 1/2" 6" D.B.G. 3 T. BOIMER ROOM		7,		R.C.G.	19-11-10	19-11-4
" SLIDING DAMPER UNIT Nº 5079 " R. " Nº 2 AIR DOOR ASSEMBLY " SARBET, OF PIPING FOR LITCH BURNING STEM " B. " Nº 1 AIR DOOR ASSEMBLY " P. " ARRET OF BURNERS & FURNACE FOR THEY RO BOIL " A. " WIND BOX DETAILS FOR 300 H BOILER " A. " DIMENSIANS FOR FLEFH TOMPS " D.B.C. 3 " SINGLE ACTING HYDRAULIC TRIPLEX - 1/2" 6" D.B.C. 3 T. BOIMER ROOM		BP		NAB.G.	18163	19-11-4
" Nº 2 AIR DOOR ASSEMBLY " ARRET, OF PIPING FOR TITCH BURNING SYSTEM " B. " Nº 1 AIR DOOR ASSEMBLY " P. " ARRET, OF BURNERS & FURNACE FOR TLEY RO BOILE " A. " WIND BOX DETAILS FOR 300 H BOILER " A. " DIMENSIONS FOR FLOFH TOMPS	Ţ	"	1, 11		18311	19-11-4
" Nº 2 AIR DOOR ASSEMBLY " ARRET, OF PIPING FOR TITCH BURNING SYSTEM " B. " Nº 1 AIR DOOR ASSEMBLY " P. " ARRET, OF BURNERS & FURNACE FOR TLEY RO BOILE " A. " WIND BOX DETAILS FOR 300 H BOILER " A. " DIMENSIONS FOR FLOFH TOMPS		1.	SLIDING DAMPER UNIT Nº 5079		T* -	19-11-4
ARRET. OF TIPING FOR TITCH BURNING SYSTEM " Nº I AIR DOOR ASSEMBLY " ARRET OF BURNERS OF TURNACE FOR TURY RO BOILE " A. " WIND BOX DETAILS FOR 300 H BOILER " DIMENSIANS FOR FLOF H TOMPS " SINGLE ACTING HYDRAULIC TRIPLEX - 1/2" × 6" D.B.G. 3 T. BOIMER ROOM	J	N	Nº2 AIR DOOR ASSEMBLY		2-5021-2	19-11-4
Nº 1 AIR DOOR ASSEMBLY "ARROT OF BURNERS & FURNACE FOR RILEY RO BOILE A. "WIND BOX DETAILS FOR 300 H BOILER "DIMENSIONS FOR FLOF H TOMPS I.F. CO. D.S. "SINGLE ACTING HYDRAULIC TRIPLEX - 1/2" × 6" D.B.C. 3 T. BOIMER ROOM 19	1	/•	ARRET, OF PING FOR PITCH BURNING SYSTEM		B-2109	19-11-4.
" NIND BOX DETAILS FOR 300 HP BOILER "A-CO.D. " DIMENSIONS FOR FLOFFH TUNIPS	,	100	NO LAR DOOR DESERVE	**	P-558	19-11-4
" WIND BOX DETAILS FOR 300 H BOILER " DINENSIANS FOR FLOFFH TUNIPS I.F. CO. D.S. " SINGLE ACTING HYDRAULIC TRIPLEX - 1/2" 6" D.B.C. 3 T. BOIMER ROOM	' . '	Tor "	ARRET OF BURNERS & FURNACE FOR RLEY RO BOIL		A-834	19-11-4
" DINENSIANS FOR FLEFH TOWNS	1		WIND BOX DETAILS FOR 300 H BOLLE		4-835	19-11-40
T. BOIME ROOM STEPLEX - 1/2 × 6 D.B.C. 3	7	••	DIRECTOR FOR FLEFFH TURES			
T. BOIMER ROOM	1		SINGLE ACTING HYDRAULIC TRIPLEX - 1/2 × 6	D.B.G.	1	1
111111111111111111111111111111111111111	1	7	1,52		7 - '	19-11-51
DP EXPANSION COINT U- TPE		Ħ.F.	EXPANSION CLOINT U- TYPE	C.S.J.nc	201BI	19-11-52
The state of the s			to the state of th			

	À				19-12	-
	T	DETAILS OF NEW STEAM LINE TO REFE	WERV	By	Dw6# 19-D-12	FILE
	4	GEN. LAYOUT & DETAILS OF OVAHO STEAM L	INE AT B. H.	"	19-D-13 19-D-15	19-12-2
	KK	DETAILS OF BEAMS & UPRIGHT SUPPORTS			19-D-16 19-D-17	19-12-3
	T B.P.	PROPOSED STEAM LINE DETAILS OF STEEL SUPPORTING FRAMEWIK. Sen'l Layout of Important Steam Lin	NT Ovrno. Line nd ces 44 Ref.		19-A-# 19-D-14 19-12-8	19-12-7
		• • • • • • • • • • • • • • • • • • •				
				·		
		·				
		and the second of the second o				
		- · · · · · · · · · · · · · · · · · · ·			• •	
· '						-
-						
		and the second of the second o				
	1.				·	n.
•			•			
•						
		••••				
			· ••••		·	
			. •			
) .			•			
					İ	
		·- ·· · · · · ·				
• · · · · · ·	1		•			·
	L		Marine algorithms of the second	J		<u>L</u>
~~	~		, o s part a colorido d o 0 a quante de 2 a ventro a coloridorido de 2 a coloridorido de 2 a coloridorido de 2			

	•			0-/5	
•			Ar.	Dwa# 19-13-1	FUE
	17	LAYOUT OF DRAINAGE SYSTEM	RCG	19-13-1	19-13-
	4	PROFILE " "	<i>*</i>	19-13-2	19-13-
		PROFILE " " " BETTLING BASIN		19-13-3	19-13
	"		"		
	#:		E.C.Co.	FILED & 14-2-14	19-13-
	l		<u></u>		- 4
	·	The second secon	_ ·_ ·″_· ·		
	1		•		
	 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3		
	1				
	1				
	1	···	1		
	1				
				١.	
	l	and the second commence of the second control of the second contro			
	1				<u> </u>
	.]				
	l	;	!		
	1				į
· >	1				[
• •••	·				
	1				
	1			İ	
	1 -				
•	1 :		,		
]				_
		A CONTRACTOR OF THE CONTRACTOR			
	1.	The second secon		1	}
	4	And the same of th	İ		
	4		ł		
***************************************		A COLUMN TO THE PARTY OF THE PA	1		ł
· - ·		· · · · · · · · · · · · · · · · ·	}		1
	1			1	
	+				
	 		İ	l	
	1		1		,
]				
					ļ
	<u> </u>	<u></u>	ļ -		-
	1_			-	1
	1 -				1
	4 -			1	
	1	. The state of the			Į.
	·#		· ·	/ / -	1
	1		1	1]
.	= .		,l	J	 _

					1	
	TYPE	FILE	TITLE	BY	DRWG	FILE #
	7			R.C. Co.		
,	عردسا		ROAD MAP OF HENNEPIN & RAMSEY COUNTIES	L.E.H.		
•	جرع		· •	R.C.G.		
	BP			R.C.Co.	19-1-4	211-4
	BP		SURVEY OF PLOT	R.C.Co.	19-1-5	211-5
	B.P.		GENERAL LAYOUT	R.C. Es.	19-1-6	211-6
	B.P.		PROPERTY OF R.E. Co.	R.C.C.		
	B.P.	1 1	LOCATION OF PROPOSED TRACKAGE			211-8
			PLANT LAYOUT	M & MC		
	7	10	MINNEAPOLIS PLANT MAP (REVISED 3-1954)	REPC.		"-10
	1	WP.	MINN. PLANT; GORHAM AVE, WALKER ST. TO LOUISIANA AVE.	P.W. SMOTH		" -//
	7		WORK ORDER RECORD.	CITY ENG.		μ,
	1	201	COUNTY MAP SHOWING PROPERTY LINES	COUNTY		n - 1.
		1:1		200779		" - 14
	1		MINN CAR COMP. SHOPS (1909)	M.C.Co		1 - 15
	م ج	بهزهر	ST. LOUIS PARK PROPERTY GIAP			× - 14
-	30	PH	M			17
	F		4-200 BULGES LILLER BLILLING	127		ت د
	<u> </u>		Personal Constitution of the Constitution of t	HMTB.		-:15
	Ţ.,		Nacquer la Carrella Carrella de la la la como della como de la com			_
. .						
<			and the second control of the second control	ļ j		
1				· · · · ·		
		-	· · · · · · · · · · · · · · · · · · ·			
٠		1		` .		
				<u> </u> 	•	
. <i>.</i>		_				
				·	Į	
	.~ .					
	[· .					
		-				· .
		۱.			·	
-				•	·	
-		 -				
-						· ·
•				···		
		[_	
						.
				-		
			_			
						
		İ				[
		{				·
	-	İ				
	I !	٠	1		ر حصادا منا	14

	2/	2	
TitleTitle	By	DRWG FIL	.e [#]
	•		• •
			·
			. '
	•		
	:		
			·· ·
- · · - - · · · · · · · · · · · · · ·	,		
		•	
	-		
			· -

Comment.

	TYPE		Title	BY	Deves	#
	B.P.		GENERAL PLANT LAYOUT	R.C. Co		
	MAP	-70	INSURANCE MAP (SEE INSURANCE FILEFOR DRY.			
. 	B.P	100	PROFIE OF 8" WATER MAIN	R.C.C.	19.3.3	213-3
	B.P.	10-	PLAYOUT & DETAIL OF FIRE PROTECTION SYSTEM	R.E. Co.	19-3-4	2/3-4
	B.P.	74	PPROFILE OF 8 WATER MAIN	K.E.Co.	14-3-3	213-5
			. 		-	
			<u></u>			
	-					
					-	
	-	• · ·	· · · · · · · · · · · · · · · · · · ·			··· ,-· -
					4	
	·					
				•		
	· · ·		· · · · · · · · · · · · · · · · · · ·			
		,				
						·· ·
				· · -	. . .	·- ·· -·· ,
				· ·		
				·· - ·- ···		
						:.
						- -
	 				· · ·	· ·
				·		· · -
		_ .				
**	l —-		•			
					·	
	L				·	
	l	L		l <u></u> . :		
*						

					****************	***************************************
				••••••	*************	••••••
************					~~~~	Massassassassassassassassassassassassass
	•••••	••••		•••••••		****************
	*********			***************************************	***************************************	At 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

	. •	,		214		
•	 ,	+		By.	一一件	#
	TYPE	file	TITLE			•
	BP		LOCATION OF PILING FOR N. RETORT & TANK FUND	W. H. W		214 - 1 214 - 2
ـُ خـ	BP		WORKING PLANS FOR RETORT BLDG.	W. H. W		214-3
	BP			W.H.W		214-4
 :	BP			W. H. W.		214-5
<u></u>	BP			W.H.W.	ī	214-6
	B. P. B. P.		The second secon	W. H. W.	1	214-7
	BP			W.H.W.	8	214-8
	BR	es		W.H.W.	9	214-9
	BP	J=	72" \$ x 175'-0" LONG CREOSOTING CYLINDER	B.B. Ca	0-2511	214-16
	8,0		GENERAL LAYOUT PIPE SYSTEM	R.E.Es.	19-0-30	214-11
	BA		NEW CARD PROCESS FOR TREATING	B.F. Cs.	19-0-30	214-12
	1 1	PS		H. A. S.		214-1:
	BP.	PS	PLAN OF FOUNDATION WALLS TANK HOUSE	HA.S.		214-1
	B.P	PS	FLOOR PLAN TANK HOUSE	H.A.S.		214-1:
	BR	PS	FRONT ELEVATION TANK HOUSE	HAS.		214-11
	BP		REAR	H. A.S.		214-1
<i>-</i>		PS_		H.A.S.	1	214-12
	7		GENERAL LAYOUT OF DRYING EQUIPMENT ETC.	R. C. Co.		, _
	<u></u>		GENERAL ASSEMBLY OF EQUIPMENT & STRUCT. STL	R.C.G.	1 '	
<u>-</u>	T.	-	DETRILS OF STRUCTURAL SUPPORT & PIPE HANGER	R.E.E.	19-0-0	2/4-2
	7		GENERAL LAYOUT & DETAILS OF ISULATION	R.E.C.	h .	1
-1 -	+/	 	FJECTOR CONNECTION TO TREATING CYLINDERS	1	7	=:7.=:
		1				
-	Τ	05	CYLINDER FOUNDATIONS W/SPECS.	E.S.		24-2
	-	25.	CYLINDER FOUNDATIONS " SPECS.	VELSON		
	BP	l				214-2
	BP BP	l	CYLINDER FOUNDATIONS "SPECS. 50000 GALLIN TANK FOUNDATION THAN FOUNDATION 19-11-4	VELSON		
	BP BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		
	BP BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		
	BP BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		
	BP BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		
	BP BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		
	BP BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		
	BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		
	BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		
	BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		
	BP BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		
	BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		
	BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		
	BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		
	BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		
	BP BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		
	BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		
	BP BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		
	BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		
	BP BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		
	BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		
	BP	l	50000 GALLEN TANK FOR PARTIES	VELSON		

					المدان
	FILE	TITLE	BY.	DRW&	FILE
		FOUNDATION & PILING PLAN TIE MACHIN'S BLDG.	W.H. W.	/	215-1
			W. H. W.	2	215-2
B.P.	<i>Q</i> S		W.H.W.	_ <i>3</i>	215-3
			W.H.W.	4	2/5-4
			Ģ.B. €0.	1040 ZPL	215-5
		PLAN OF TIE MACHINING PLANT	9. <i>B.</i> Co.	1517	215-6
-		FOUNDATION PLAN _"	G.B. Co.	-	
BP	15	PROPOSED TIE MACHINING MILL	G.B.Co.	1410	215-8
BA	F	TIE BRANDING MACHINE	9. <i>8. co.</i>	283274	215-9
BP	2	ADJUSTABLE TIE BORING MACHINE	9.B. 60.	676ZN-L	215-1
B.P.		(7)	9.B.Co.		_
BP			9.8. Ca		
BP			9.B.Co.		
BP.			G.B. Co.		
BP.	ļ .		9. B. Co.		
В.Р.		8" GRAVITY CONVEYOR WITH STOP	9.B.Co.		
B.P.		JIE RAISING DOG ASSEMBLY	9.8.6.		
B.P.	'	GEAR BOX PUMP	9.8.0		l .
B.P.	:	The state of the s	9. B. Co.	l	
B.P.	'	ASSEMBLY OF SPINDLE PARTS	G.B.Co.	l	
BP	1		9.8.20.	i	ŧ
· ·	1	FLOOR PLAN	9. B. Co.	ľ	
 \$P.	·	LINE MARKING. SAW	G.B. Co.	l	
BP		ROZER KNIFE BALANCING STAND	9.8.20.	1 _	i -
۾ ۾		BILLS OF MATERIAL FOR ADZING & BORING FQUIR	1 -	· ·	215-25
			RE.C.	I .	1
	05	.	R. C. G.	וש אבו	215.29
	PS		•	1	215-25
	1	DETRILS OF INCISING BUILDING		1	1 -
B.F	1	PIPING DIAGRAM FOR TIMBER INCISING MACHINE	G n. Le	1795	2/5-3/
B. <u></u>	'	PROPOSEDED ADDITION OF THE & TINBER CONEYEYOR.	9.2.	1.75	215-3
7	@ <u>5</u>		R.T. CH.	29-53	215-3:
	04	DETRILS OF CONVEYORS TO INCISING MACHINE			215-34
	-	PRELIMINARY SKETCH LIFT TRUCK HANDLING	/2		
/_	1			1 .	
7	7	PROPOSED TRACK & ROBDWAY FOR A&B MILL	2	<u></u>	
	05	SKETCH SHOWN & METHOD OF HANGING DUMP RIG	G.B.Co.	1337	2/5-3;
	100	INFEED CONVEYOR			<u>" -3</u>
	"	LAYOUT OF G.E. LIMIT SWITCHES ON ADV.			
		TYPE IN TIE BORER WHEN CLOED WITH	ļ		
		HYDRAULIC BRANDER		424-41	
	4	TRAM CAR DUMPING RIG	G.B.Co	2322.ZN	
	"	LAYOUT OF TIE DATE BORING UNIT		4	" 41
	//	ADJUSTABLE TIE ADZING	DILGEAR	957 Zp.	4 9 4 i
<u> </u>		TYPE C-4 DYPLEX FUMP ASSEMBLY	Co.	51897	1 7
	1		G.B.Co	958ZP-L	1
			M.WHEEL MENT.	13385	" Shi
	//-	DESIGN OF INCISOR KOLL	R.C.C.	(23-8-5	7
	"	TIMBER INCISING MACHINE	1	358-17	14
<u> </u>	. I.		L		<i>A</i>

	TYPE	FILE	TITLE	BY.		
	-;	P.S	ENGINEERS SIKETCHES OF DETAILS OF	RCCo.	358	215-4
	77		ENGINEERS SIKETCHES OF DETAILS OF VARIOUS ITEMS (SAME ASMOBILE). PROPOSED TRACK PLAN FOR AF 8 MILL TIE FEED WITH LIFT TRUCK TO ADZING & BORING MILL	RTICH		" H
				- '		
	-					
	-					 . <u>-</u> .
						• • • ·
						- ·
					·.	
				-	-	
						-
	<u> </u>					
	 					
				<u>-</u>	:	
	-					
	-			-	-	
<u>`</u>	-]	†				
	1-	 		·		
		*******		_		
	•			***************************************		***************************************

				***************************************		***************************************

					-4	
<u>-</u>	TYPE	F. ~1	Title		# Drwg	#
	BP			M.S.C. Co.		
	B.P			C.J.W. Co.		
	B.P		TIE TRAM		_	216-3
	B.A			G. B. 🕏		
	BB		CAR HAUL	D. LW. Co.	11424	216-5
	B.P	PS		D.I. W. Co.	10962	216-6
	B.P.			F.R.H.B	JL-1015	2/6-7
	B.P.		LIST OF PARTS FOR ABOVE ENGINE	F.R.H.G.	-	
	<i>T</i>		MANHOLE COVER RCX 50-61	R. C. Co.		
		-	<u>" " 66-74 </u>	R. E. Co.		
	<u></u>			R.E. Es.		
	<u></u> _	·		R. E. Co. R. E. Cs.		
	<i>T</i>					" -14
	·	ردم	TRAM CAR BEARING LEVER ARRANGEMENT FOR CAR HAUL	C. ZWKS.	•	
		,	RACIS CARS			4-16
		1				" -1%
		11	DETAIL OF 8 9 CHILLED CAST IRON WHEEL		<i> </i>	
			& AXLE WITH TIMKEN ROLLER BEARINGS.			
			FOR THE & BOLISTER TRANS, 6 P. CYLINDER	A 3		
- ·			£ 24 GA. TRACK	G. B. SHIPLEY	4-661	216-18
		25_	DETAIL SHOWING MOSITION OF IRAM CAR			
<u>.</u>			4 BAIL RAIL (AS FOBRICATED) IN KELATION			
	<u>_ </u>		TO SMALL RING INSIDE			216-19
		25.	HYDRAULIC TIE BRANDING MACHINE	6./3.Co	782444	720
		∤ · ·			• • •	
					1	
	 -	 	A CONTRACTOR OF THE PROPERTY O			
	1 - '	1				
	_	-			[
					Į	
· · · · · · · · · · · · · · · · · · ·		L _				
	l	<u>.</u>				
		. . .		-		
	ļ—	 		· - · -		ļ
	 	 				
	┥ -	┨			··	· ·
	-	1				
	 	 				
	 	 -		1		
		†				
	1	1				1 .
		<u> </u>				I
(:_	 	ļ				.
	ļ	. .	The second of th			
		 				-
 -	 -	+-		ļ		· · · · · ·
· - ·	· -	- -			-	1
	J	.J	<u></u>	1	· · ·	٠ ٠

			• • • • • • • • • • • • • • • • • • •		#	4
	TYPE	Fice	TITLE	BY	DRWG	I FILE
		1//5	1 FLOOR PLAN OF WARE HOUSE	R.E. es.		217-1
_{{	RP.	05	2 10 11 11	R. E. Co.	1	217-2
<u>- ;- · · · · · · · · · · · · · · · · · ·</u>	DD	105		R.C. &.	1	217-3
	20	1º AX	SECTIONAL VIEWS ""	R. E. C.		217-4
	0.1.	1	SECTIONAL VIEWS	77. 6	7	211
		ļI	 	i '	1	
	-	 		··· '		
	1 3	↓ /			ł	
			<u> </u>	i	1	
•i4.	_	J'	 	i		
		1!	<u> </u>	!		
<u> </u>		1!	 	į .	1	
	·	.] _'	<u> </u>	. '		
	.	'	<u></u>	!		
			<u> </u>	ļ. '	ļ	
	1		<u></u>	'		
	1.	\ <u>.</u> '	1			
	1		<u> </u>			
	1		<u> </u>	1 .		
		1				
	<u> </u>					
	Τ					
			<u> </u>	ł		1
		1				1
	1		1			
· -		1		1		
	1					
	"	1		1	.]
	1 -					
	1 -	T				
	†	1	1			
	1	1				
- -		-				
	"	1				
		· ·				
		1	<u></u>			
	-	-				
		1		• • • • • • • • • • • • • • • • • • • •	· ·	
					İ	
	+	:			† · · ·	
		+-		İ		
	1-	+		ł · ·	1	
	1-					•
		+	 			
		 				
-60	 	:			1	
<u>\</u>	-}	4				
	1		· · · · · · · · · · · · · · · · · · ·			1
		-			· ·	} .
	.					
	<u>- L</u>	J. —				1
*************					***************************************	

	Trice	Fuel	TITLE	BY	DPWG	Five.#
	BR		PROPOSED CHANGES IN POWER TRANSMISSION	1		L .
_{	B.P.		LUMBER CONVEYOR	R.e. &.	19-8-2	218-2
· 	8.0		l · · · · · · · · · · · · · · · · · · ·	R.E.Co.		
l	B.P.		SHAYING EXHAUST PIPES	9.8.0.	1	218-4
	B.P.		PROPOSED CHANGES & IMPROVE MENTS	R.e. es.	1 1	
	B.R	1 1	1 • • • • • • • • • • • • • • • • • • •	9.8. €	1 - 1	1—
+- · ••• ,	B.P.		1	R.C. Co.	1 1	
<i>f</i>		 	BLOOMINGTON MILL BUILDING	R.E. Co.	17-6-3	218-0
<i>f</i>	1					
1				1	1 !	
	1:	'			.!	
ı.f		_ '	<u>-</u>		!	
f 	1	\ \ \ \!			!	
I			- · · · · · · · · · · · · · · · · · · ·		1	• • •
- -	+	•			1	
. .	+			• • • •		
	1					
 	1_				'	
.						
	.		<u> </u>			
		-	<u></u>		. '	
`• .		-				
 I	-					
	-					
·					1	
]			.	
. — –	ļ			-		-
, 			 			
						
	1	-				
· • · · · · · · ·	ļ			-		
]	1			1	
	Ī	<u> </u>			1	
	-					
. 		 			-	· · · · · · · · · · · · · · · · · · ·
		┤—	 			
- - ·	1 —	 				
·	1	1]
]		-		
	<u></u>]			4	
	+-	-				
 I			d and the state of the state o			
				-		
 -	1	†]	1	- · - · · ·
]	
1	•	•				
	······································			************	••••••	
				~~~	****************	
				•••••••	******************	**************************************
***************						
				******************		**************
**************************************	*********					***************************************

		•				
	T-C	FILE	Tirle	By .	DR 46	F. #
	LTPE	دان	BUILDING PLAN	H.AS.		
_(		DS.	FOOTING	H.A.S.		
		"	FLOOR	H. A. S.		
			FLOOR	H.A.S.		
		أبحجر	ELEVATIONS	H. A. 5.	19-9-5	219-5
			ADDITION TO BLOG; FOOTING PLAN	".		1 - 6
. <b></b> -	[ <u>.</u>		- " " FLOOR "-	<i>"</i>		" - 2
<del></del>	2 D		4 " TELEVATIONS	H.A. S.		7 8
	BP		Boiler Room & Still Unit	10-24 Dr.		219-9
			and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o			
	1		and the state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the secon		!	• .
				•		
	-					• •
·	ļ · -					
				-	- <i>;</i>	
•	· ·					
	<u> </u>	<del> </del>			ĺ	
<del>-</del> (	1			<u> </u>		
	1 -	ŀ .		·		•
				·		
		]				
		ļ. <u>.</u> .				
	↓	ļ				
		ļ				
	ļ					
	<b>├</b> —	┨			. –	<b>.</b>
				ļ	•	
	-				1	
					-	
	1					_
					Ì	<u></u>
				ļ . <b>.</b>		
	ļ	ļ				
·	<b></b> _	ļ			ļ	
-( -	ļ	├				
<b>-</b> •• ••	<del> </del>	<del> </del>				
	1	1				
<del></del>	1	1		,		
		Ι				
		<del></del>		٠.		
	*********		· · · · · · · · · · · · · · · · · · ·	***************************************		

·				. <u>.</u>	#	<b>+</b>
	TYPE	FILE			DRWG	FILE
	B.P.		90" X 16" STILL	R.C. Co.	ı · · — ·	220-1
{	B.P.		FLOAT MECHANISM (7'9 x 14' LONG PITCH TANKS	1		· ·
	<i>B</i> , <i>P</i>		SAFETY VALVE INSTALLATION	l		220-3
	B.P.		MANOMETER PIPING DIAGRAM	R.C.Co.		
	8.P.		MAN HOLE COVER	R.e. e.		_
. <b>_</b>	B.P.			R.E.C.	1	220-6
	<i>T</i> _	ند		R. C. Co.		-
	7	05	PROFILE OF COKE TRACKS & POOR SILLS	R. E. 2.		
	<i>T.</i> _		STILL ROOM - PAN ROOM SEAL	R. E. Co.		
	BP		MANHOLE COVER RELEASE			220-10
	BP	n	Butan			220-11
	BP.	· 1	DUTCH OYENS	R.C.B.		_
	BP.		STILL DAMPERS	R. e. es		220:13
	<i>B.P.</i>			R. E. S.	t .	
· · ·	BP. BP.			R. E. G. R. E. G.	_	_
· · · · · · - · ·	8.P		MAY WOOD STILL	RI. ICA	-	
	9			R.E. C.	_	
	7		STILL DAMPER CONTROL	R.T.ge.		
<del>-</del>	BP		ASSEMBLY OF STILL T'-6 X 16"  ARRANGEMENT OF WELDED COKEING STILL 685L)			
	80			2.1. W. C.		
	7	RS		R.T.C.		
			/	11.1 F -1	27	
-i	テ	- 1	7-7 X16-1 REILLY WELDED STILL 3-24-55)	RT.CCo	1	220-25
	ŔΡ		7-7'X16-1' REILLY WELDED STILL 3-24-55) BATTERY OF STILLS	R.C.Co.		220-24
					Ĭ	
				、		W-1 10 . 10 . 4
				<u>.</u> .		
				. <b>.</b>		
:			v man in the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the c			
	<u> </u>				ļ .	
				·		
				<b></b>		
		. ·				
					·	
	<u> </u>				· -· ·	
						· ·
		···				
					1	
-( )-					ţ	
			a proprio approximation of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the		i .	
	·				l ·	,
			r <u>a a la a a militar de la calenta de la desta de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition </u>	,		j
				_		
				· · ·	<b></b>	
		<b>•</b>				

TERRIE TITLE  I S. DETAILS OF PITCH BURNING SYSTEM (STORMS FOR R.C. 9) 19:11-1 221-1  I S. DETAILS OF PITCH BURNING SYSTEM (STORMS FOR R.C. 9) 19:11-1 221-1  I S. ROOR OPENING FOR BOILER INSTALLATION  R.C. 9) 19:13221-3  I S. DETRILS OF FLUE  DETRILS OF FLUE  PLAYOUT OF BOILER & EQUIPMENT  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 221-1  R.C. 0 17-11-1 22		•	KIT KEDDODUCE TRAINING	4	1	
T ES DETAILS OF PITCH BURNING SYSTEM (STORME EQ. 18.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	) Vice	Fi el	Title	المحاد	#	<del></del>
T. S. GOG. OPENING FOR BOILER INSTRILATION. R. 6. 19-11-12-12-12-15 T. S. LAYOUT OF BOILER & EQUIPMENT. R. 6. 19-11-12-12-15 T. S. LAYOUT OF BOILER & EQUIPMENT. R. 6. 19-11-12-12-15 T. S. DETRILS OF ELUE T. PILING PLAN FOR BOILER. R. 6. 19-11-15 B. POLY PLAN FOR BOILER. R. 6. 19-11-15 B. POLY PLAN FOR BOILER. R. 6. 19-11-15 B. POTRILS OF COLD RIR DUCT. R. 5. 12-15-18 B. POTRILS OF COLD RIR DUCT. R. 5. 12-15-18 B. POTRILS OF COLD RIR DUCT. R. 5. 12-15-18 B. P. """ CASING PLAN FOR BOILER R. 6. 12-15-18 B. P. """ CASING PLAN R. 6. 12-15-18 B. R. """ SOOT BLOWER FOR SOUTH R. 6. 12-15-18 B. R. """ SOOT BLOWER FOR THAN R. 6. 12-15-18 B. SOOT BLOWER PLAN R. C. 6. 12-11-18 B. SOOT BLOWER PLAN R. R. 6. 12-11-18 B. SOOT BLOWER PLAN R. R. 6. 12-11-18 B. TANK & BOUER FUEL SYSTEM. R. 6. 12-11-18 B. TANK & BOUER HOUSE FLLING & FLOOR PLAN R. 6. 19-11-18 B. TANK & BOUER HOUSE FLLING & FLOOR PLAN R. 6. 19-11-18 B. TOTALL OF BOILER FUEL SYSTEM. R. 6. 19-11-18 B. TOTALL SOF BOILER FUEL SYSTEM. R. 6. 19-11-18 B. TOTALL SOF BOILER FUEL SYSTEM. R. 6. 19-11-18 B. TOTALL SOF BOILER FUEL SYSTEM. R. 6. 19-11-18 B. TOTALL SOF BOILER FUEL SYSTEM. R. 6. 19-11-18 B. TOTALL SOF BOILER FUEL SYSTEM. R. 6. 19-11-18 B. TOTALL SOF BOILER FUEL SYSTEM. R. 6. 19-11-18 B. TOTALL SOF BOILER FUEL SYSTEM. R. 6. 19-11-18 B. TOTALL SOF BOILER FUEL SYSTEM. R. 6. 19-11-18 B. TOTALL SOF BOILER FUEL SYSTEM. R. 6. 19-11-18 B. TOTALL SOFT SOFT SOLD SOLD SOLD SOLD REPORT SOLD SOLD SOLD SOLD SOLD SOLD SOLD SOLD					PKWO	True
T. S. BOOF OPENING FOR BOILER (INSTALLATION R. 6. 19-11-18-121-1- T. S. DETRILS OF FLUE T. S. DETRILS OF FLUE T. S. DETRILS OF FLUE T. S. DETRILS OF FLUE T. S. DETRILS OF FLUE T. S. DETRILS OF FLUE T. S. DETRILS OF FLUE T. S. DETRILS OF SOLER R. C. G. 17-11-5 221-1- B.R. FOUNDATION FOR BOILER R. C. G. 17-11-5 221-1- B.R. FOUNDATION FOR BOILER R. C. G. 17-11-5 221-1- B.R. S. G. 12-15-15-221-1- B.R. S. G. 12-15-15-221-1- B.R. S. G. T. S. G. 12-15-15-221-1- B.R. S. G. T. S. G. T. S. G. 12-15-15-221-1- B.R. S. G. T. S. G. T. S. G. T. S. G. 12-15-15-221-1- B.R. S. G. T. S. G. T. S. G. T. S. G. T. S. G. 12-15-15-221-1- B.R. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. S. G. T. G. G. T. S. G. T. G. G. T. S. G. T. G. G. T. S. G. T. G. G. G. T. S. G. G. G. G. G. G. G. G. G. G. G. G. G.	(++	مسرو	DELALLS OF FIICH BUNNING SYSTEM (STORAGE FOR	R. C. C.	17:11:1	221-1
T. S. DEFRILS OF ELUE  DEFRILS OF ELUE  T. S. DEFRILS OF ELUE  PILING PLAN FOR BOILER  R. C. O. 13 p18 22-1-  B. P. COUNDATION FOR BOILER  R. C. O. 13 p18 22-1-  B. P. DEFRILS OF COLD RIR DUCT  R. S. O. 1265M 221-1  B. P. S. C. T. S. O. 1265M 221-1  B. P. S. O. 1265M 221-1  B. P. S. O. 1265M 221-1  B. P. S. O. 1265M 221-1  B. P. S. O. 1265M 221-1  B. P. S. O. 1265M 221-1  B. P. S. O. 1265M 221-1  B. P. S. O. 1265M 221-1  B. P. S. O. 1265M 221-1  B. P. S. O. 1265M 221-1  B. P. S. O. 1265M 221-1  B. P. S. O. 1265M 221-1  B. P. S. O. 1265M 221-1  B. S. O. 1265M 221-1  B. S. O. 1265M 221-1  T. S. FOUNDATION FOR OIL & PITCH. TANK  R. C. O. 13-1-1  T. S. FOUNDATION FOR OIL & PITCH. TANK  R. C. O. 13-1-1  B. P. MISC. PIPING DETAILS  R. C. S. IN-1-1-2  B. P. S. DEFRILS OF BOILER FUEL SYSTEM  R. C. O. 13-1-1  B. P. S. DEFRILS OF BOILER FUEL SYSTEM  R. C. O. 13-1-1  B. P. S. DETAILS OF BOILER FUEL SYSTEM  R. C. O. 13-1-1  B. P. S. DETAILS OF BOILER FUEL SYSTEM  R. C. O. 13-1-1  B. P. S. DEFRILS OF BOILER FUEL SYSTEM  R. C. O. 13-1-1  B. P. S. DEFRILS OF EVANDATIONS FOR ADDITION TO BOILER HOUSE R. C. O. 13-1-1  B. P. S. DEFRILS OF EVANDATIONS FOR ADDITION TO BOILER HOUSE R. C. O. 13-1-1  B. P. S. DEFRILS OF SUNDATIONS FOR ADDITION TO BOILER HOUSE R. C. O. 13-1-2  B. P. DETROIT STOKER  B. S. SETTING, PLAN FOR T. N. N. B. BILER  B. C. DESTINATION FOR MILLER FUEL SYSTEM GENERAL AND AND AND AND AND AND AND AND AND AND		1				•
T. S. DETRILS OF FLUE  T. PILING PLAN FOR BOILER  R. G. 17-11-5 22-1-6  BR. COUNDATION FOR BOILER  R. G. 12-1-6  BR. DETRILS OF COLD RIX DUCT  R. G. 12-1-6  BR. DETRILS OF COLD RIX DUCT  R. G. 12-1-6  BR. """ FRANT WALL SUPPORT  R. G. 12-1-6  BR. """ CASING  PROST PLANESS 221-16  BR. """ CASING  DETRILS OF BOILER FAN  R. G. 12-1-6  BR. SOOT BLOWER PIPING  R. G. BRIGHT R. C. G. P. 2-11-16  BR. SOOT BLOWER PIPING  R. G. G. 19-1-14  BR. """ DETRILS OF BOILER FUEL SYSTEM  R. G. G. 19-1-14  T. DETRILS OF BOILER FUEL SYSTEM  R. G. G. 19-1-14  BR. """ BLOWER HOUSE PILING & FLOOR PLAN  R. G. G. 19-1-14  BR. """ BLOWDER HOUSE FOLLING & FLOOR PLAN  R. G. G. 19-1-14  BR. """ BLOWDER HOUSE FOLLING & FLOOR PLAN  R. G. G. 19-1-14  BR. """ BLOWDER HOUSE FOLLING & FLOOR PLAN  R. G. G. 19-1-14  BR. """ BLOWDER HOUSE READITIONS TO BOILER HOUSE R. G. G. 19-1-16  BR. SETTING PLAN FOR 72'X NB. BOILER HOUSE R. G. G. 19-1-16  BR. SETTING PLAN FOR 72'X NB. BOILER  BR. G. RRRIGHT. OF BUNNERS & FURRINGE FOR 350 H.R. BOILER MASS AND AND AND AND AND AND AND AND AND AND		泛		3 i	•	,
T	1 -	05		1		J = -
BR FOUNDATION FOR BOILER  BR DETRILS OF COLD RIR DUCT.  BR S. PETRILS OF COLD RIR DUCT.  BR S. PETRILS OF COLD RIR DUCT.  BR S. PETRILS OF COLD RIR DUCT.  BR S. PETRILS OF COLD RIR DUCT.  BR S. PETRILS OF COLD RIR DUCT.  BR S. PETRILS OF BOILER FOR SYSTEM.  BR SOOT BLOWER PIPING FOR TANK R. C. P. 19-11-14 221-17.  BR SOOT BLOWER PIPING R. C. P. 19-11-14 221-17.  BR SOOT BLOWER PIPING R. C. P. 19-11-14 221-17.  BR SOOT BLOWER PIPING R. C. P. 19-11-14 221-17.  BR SOOT BLOWER PIPING R. C. P. 19-11-14 221-17.  BR SOOT BLOWER POIL OF FILE SYSTEM.  R. C. P. 19-11-18 221-17.  BR SITH S. P. 19-11-18 221-17.  BR SITH S. P. 19-11-18 221-17.  BR SETTING POINDATIONS FOR APPTIONAL BOMER (BUS R. C. P. 19-11-18 221-17.  BR SETTING PIAN FOR TO X N. B. BOILER HOUSE R. C. P. 19-12-22-11.  BR SETTING PIAN FOR TO X N. B. BOILER B. C. P. 19-12-22-11.  BR BR SETTING PIAN FOR TO X N. B. BOILER B. C. P. 19-12-22-11.  BR BR SETTING PIAN FOR TO X N. B. BOILER B. C. P. 19-12-22-11.  BR BR SETTING PIAN FOR TO X N. B. BOILER B. C. P. 19-12-22-11.  BR BR BR S. WATERTUBE BOILER B. B. C. P. 19-12-22-11.  BR BR BR BR BR BR BR BR BR BR BR BR BR B		7		I		i .
BR DETRILS OF COLD RIR DUCT  BR 2. ""FRONT WALL SUPPORT  R. S. C. [123582 221 - 18]  BR """ CASING  R. S. C. [123582 221 - 18]  BR """ CARRIED (R. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S.		رييم	•	1 1		1
BR32 "FRINT WALL SUPPORT R.S. 4   163819 221-19 BR "SOT BLOWER DR. 50 3-0078 221-11 BR "SOT BLOWER PIPEN DR. 50 3-0078 221-11 BR "SOT BLOWER PIPEN R.S. 6   16-1018   221-11 BR SOT BLOWER PIPEN R.S. 6   16-1018   221-11 BR SOT BLOWER PIPEN R.S. 6   16-1018   221-11 BR FOUNDATION FOR OIL & PITCH TRANK R.S. 6   19-1118 221-17 I S DETRILS OF BOILER FUEL SYSTEM R.S. 6   19-1118 221-17 BR MISC. PIPING DETRILS BR DETRILS OF FOUNDATIONS FOR ADDITIONAL BOMER (BUD R.S. 6)   19-1118   221-11 BR DETRILS OF FOUNDATIONS FOR ADDITIONAL BOMER (BUD R.S. 6)   19-10221-11 BR DETRILS OF FOUNDATIONS FOR ADDITIONAL BOMER (BUD R.S. 6)   19-10221-11 BR DETRILS OF FOUNDATIONS FOR ADDITIONAL BOMER (BUD R.S. 6)   19-102221-11 BR DETRILS AF FOUNDATIONS FOR ADDITIONAL BOMER (BUD R.S. 6)   19-102221-12 BR DETRILS AF FOUNDATIONS FOR ADDITIONAL BOMER (BUD R.S. 6)   19-102221-12 BR DETRILS AF FOUNDATION FOR T2' X 18' BOILER HOUSE R.S. 6   19-102221-12 BR DETRILS AF FOUNDATION FOR T2' X 18' BOILER BOMER B.S. 60, 109-1010-221-12 BR BR SETTING PLAN FOR T2' X 18' BOILER B.S. 60, 109-1010-221-12 BR BR SETTING PLAN FOR T2' X 18' BOILER B.S. 60, 109-1010-221-12 BR BR SETTING PLAN FOR R.S. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.				D' '		
BR "SOT BLOWER ORS \$ 5078 221-16 BR "SOT BLOWER ORS \$ 5078 221-16 BR "CLARRAGE FAN CF & 72181 221-16 BR SOT BLOWER PIPING TO FOUNDATION FOR OIL & PITCH TANK R.S. & KIA88 221-17 TO DETAILS OF BOILER FUEL SYSTEM R.C. & 19-11-14 221-17 TO DETAILS OF BOILER FUEL SYSTEM R.C. & 19-11-14 221-17 TO MISC. PIPING DETAILS RE OIL 19-11-14 221-17 BR TANK & BOMER HOUSE PILLING & FLOOR FLAN H.R.S. 1962-1221-17 BR VERTALL SCHOOL OF ADDITION TO BOILER HOUSE R.C. & 19-19-18 221-17 BR VERTALL DESIGN OF ADDITION TO BOILER HOUSE R.C. & 19-19-18 221-12 BR VERTALL DESIGN OF ADDITION TO BOILER HOUSE R.C. & 19-19-18 221-12 BR VERTALL DESIGN OF ADDITION TO BOILER HOUSE R.C. & 19-19-18 221-12 BR DETROIT STOKER BR BRES WATERTURE BOILER BR BRES WATERTURE BOILER BR BRES WATERTURE BOILER BR BRES WATERTURE BOILER BR BRES PRESD ARRAMT. OF BURNERS & FURRINGE FOR SCHIR BOILER MARCA-19-12 221-22 BR PRESD ARRAMT. OF BURNERS & FURRINGE FOR SCHIR BOILER MARCA-19-12 221-22 BRE BR BRES MATERTURE FOR BOILER MARCA-19-12 221-22 BR BR BRESS PROSD ARRAMT. OF RILLEY STERM GENTT'S UNIT R.S. O. 19-19-12 21-22 BR BR BRESS PROSD ARRAMT. OF BURNERS & FURRINGE FOR SCHIR BOILER MARCA-19-12 221-22 BR BR BRESS PROSD ARRAMT. OF BURNERS & FURRINGE SOLER MARCA-19-12 221-22 BR STEMBLY OF SURNERS & FURRINGE FOR SCHOOL MARCA-19-12 221-22 BR STEMBLY OF SURNERS WITH S-528 X & FREDCK MARCA-19-12 221-22 BR STEMBLY OF SURNERS MITH S-528 X & FREDCK MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 21-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 21-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA-19-12 221-21 BR MARCA				! i		_
BR SOT BLOWER OF SOME 221-11 BF SOT BLOWER FAN C. 6 & 8-2181 221-12 BR SOT BLOWER PIPING R. 6 & EXHBIT 221-13 T. FOUNDATION FOR OIL & PITCH TANK R. C. 6. 19-11-14 221-17 T. FOUNDATION FOR OIL & PITCH TANK R. C. 6. 19-11-14 221-17 T. F. MISC. PIPING DETRILS BR TANK & BAMER HOUSE PILING & FLOOR PLAN H.A.S. 19-22-12-121-11 BR TANK & BAMER HOUSE PILING & FLOOR PLAN H.A.S. 19-22-12-121-11 BR DETRILS OF FOUNDATIONS FOR APPTIONAL BOLLER (BLOK R. G. 6. 19-10-22-12-12-12-12-12-12-12-12-12-12-12-12-				1 1		
B.P. SOOT BLOWER PIPING  T. P. FOUNDATION FOR OIL & PITCH TANK  T. P. FOUNDATION FOR OIL & PITCH TANK  T. P. DETAILS OF BOILER FUEL SYSTEM  T. P. MISC. PIPING DETAILS  T. P. MISC. PIPING DETAILS  T. P. MISC. PIPING DETAILS  T. P. MISC. PIPING DETAILS  T. P. MISC. PIPING DETAILS  T. P. MISC. PIPING DETAILS  T. P. MISC. PIPING DETAILS  T. P. MISC. PIPING DETAILS  T. P. MISC. PIPING DETAILS  TOTAL & BOULER HOUSE PLANK R. C. & 19-11-16 221-16  B.P. DETAILS OF FOUNDATIONS FOR ADDITIONAL BOILER (BURK R. C. & 19-11-16 221-16  B.P. DETAILS OF FOUNDATIONS FOR ADDITIONAL BOILER (BURK R. C. & 19-11-221-12  B.P. DETAILS OF FOUNDATIONS FOR ADDITIONAL BOILER HOUSE R. C. & 19-11-221-12  B.P. DETAILS OF FOUNDATION TO BOILER HOUSE R. C. & 19-11-221-12  B.P. DETAILS OF BOUNERS GIVERNOCE FOR SSAHR, BOILER R. C. & 19-11-221-12  B.P. DETAILS OF BOUNERS GIVERNOCE FOR SSAHR, BOILER R. C. & 19-11-221-12  B.P. SETTING PLANK FOR T2' X 18' BOILER  B.P. BRAGS. WATERTUBE BOILER  B.P. RERGMT. OF BURNERS GIVERNOCE FOR SSAHR, BOILER R. B.B. C. 9-16-18-221-12  B.P. SETTING PLANK OF THE REPORT OF THE WARREN PARCELL TO PROBLEM TO BURNERS GIVERNOCE FOR "AG" BOILER R. B.B. C. 9-18-18-221-12  B.P. MISC. PIPING FOR PITCH BURNING SYSTEM R. B.C. 9-18-18-221-12  B.P. MISC. PIPING FOR PITCH BURNING SYSTEM RAB CAP-201-121-13  B.P. MISC. PIPING FOR PITCH BURNING SYSTEM RAB CAP-201-121-13  B.P. MOLL AIR DOOR ASSEMBLY  B.P. SEIDEN ARRANT OF RELLY TYPE FURI OIL BERNARGE POIL 221-3  B.P. SEIDEN ARRANT OF RELLY TYPE ROLL OIL BERNARGE POIL 221-3  B.P. GENERAL BREGNT SPETAILS SURNER BOX Q AIR SUPPLY PERSON 123-18-12-12-12  B.P. SEIDEN ARRANT OF RELLY TYPE ROLL OIL BERNARGE POIL 221-3  B.P. GENERAL BREGNT SPETAILS SURNER BOX Q AIR SUPPLY PERSON 123-18-12-12-12-13  B.P. GENERAL BREGNT SPETAILS SURNER BOX Q AIR SUPPLY PERSON 123-18-12-12-13  B.P. GENERAL BREGNT SPETAILS SURNER BOX Q AIR SUPPLY PERSON 123-18-12-12-13  B.P. GENERAL BREGNT SPETAILS SURNER BOX Q AIR SUPPLY PERSON 123-18-12-13  B.P. SEIDEN ADDITION SPETAILS FOR 30 HAR BOILER NAB CAPES SELET SPETAILS FOR	- ·- · · <b>/-</b>			1 - 1		
BR SOOT BLOWER PIPING R.S. B. EK148  221-12  T. P. SOUNDATION FOR OIL & PITCH TANK R.C. G. 19-11-15 221-15  T. P. DETRILS OF BOILER FUEL SYSTEM R.C. G. 19-11-15 221-15  T. P. MISC. PIPING DETRILS  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16 221-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16  R.C. G. 19-11-16				1 1		1
TO FOUNDATION FOR OIL & PITCH TANK  TO FOTALLS. OF BOILER FUEL SYSTEM  R. C. & 19-11-14 221-17  TO FOTALLS. OF BOILER FUEL SYSTEM  R. C. & 19-11-15 221-17  R. C. & 19-11-15 221-17  R. C. & 19-11-15 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-16 221-17  R. C. & 19-11-1		1		l .	_	-
T. C. DETRILS OF BOILER FUEL SYSTEM.  T. C. MISC. PIPING DETRILS  R. TANK & BOMER. HOUSE PILING & FLOOR PLAN  H.A.S. 1962-2 221:11  B.P. TANK & BOMER. HOUSE PILING & FLOOR PLAN  H.A.S. 1962-2 221:11  B.P. TOPERILS OF FOUNDATIONS FOR ADDITIONAL BOILER (BLD. R. & 19-D-2023)  B.P. DETRILS OF FOUNDATIONS FOR ADDITIONAL BOILER (BLD. R. & 19-D-2023)  B.P. DETROIT STOKER  B.P. DETROIT STOKER  B.P. SETTING PLAN FOR 72 X18' BOILER  B.P. BROS. WATERTUBE BOILER  B.P. BROS. WATERTUBE BOILER  B.P. ARROM'T. OF BURNERS & FURDINGE FOR 350 H.R. BOILER MABO. A-14-221-2  B.P. T. """  B.P. NA. BURNER FOR R. C. C.  B.P. NA. BURNER FOR R. C. C.  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER MABO. A-64-221-2  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER MABO. B-209-221-3  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER MABO. B-209-221-3  B.P. """  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER MABO. B-209-221-3  B.P. """  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER MABO. B-209-221-3  B.P. """  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER MABO. B-209-221-3  B.P. """  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER MABO. B-209-221-3  B.P. """  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER MABO. B-209-221-3  B.P. """  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER MABO. B-209-221-3  B.P. """  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER MABO. B-209-221-3  B.P. """  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER MABO. B-209-221-3  B.P. """  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER MABO. B-209-221-3  B.P. """  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER MABO. B-209-221-3  B.P. """  B.P. WIND BOX DETRILS FOR 300 H.P. MABO. B-209-221-3  B.P. """  B.P. WIND BOX DETRILS SURVER BOX A AIR SUPPLY PER R.S. C. 1243-P58-221-3  B.P. """  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER MABO. B-209-221-3  B.P. """  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER MABO. B-209-221-3  B.P. """  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER MABO. B-209-221-4  B.P. WIND BOX DETRILS FOR 507-9  B.P. MARCH. B-209-1  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER MABO. MABO. B-251-221-4  B.P. DIMERSIONS FOR FLETH HUMPS  IN MABO		1	•	1		1
R. C. PIPING DETAILS  R. TANK & BOWER HOUSE PILING & FLOOR PLAN  H.A.S. (1902-121)  B. P. DETRILS OF FOUNDATIONS FOR ADDITIONAL BOILER (BLD)  B. P. DETRILS OF FOUNDATIONS FOR ADDITIONAL BOILER (BLD)  B. P. DETRILS OF FOUNDATIONS FOR ADDITIONAL BOILER (BLD)  B. P. DETROIT. STOKER  B. DETRING PLAN FOR 72 × 18' BOILER  B. B. C. DESIGN OF ADDITION TO BOILER HOUSE R. C. G. (19-D20 221)  B. R. SETTING PLAN FOR 72 × 18' BOILER  B. B. C. DESIGN FOR 72 × 18' BOILER  B. B. C. DESIGN FOR 72 × 18' BOILER  B. B. C. DESIGN FOR 72 × 18' BOILER  B. B. C. DESIGN FOR 72 × 18' BOILER  B. C. DESIGN FOR TORE BOILER  B. C. DESIGN FOR PLAN FOR TOR TORE BOILER MARGE MARGE FOR 12' 12'  B. C. DESIGN FOR A PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF T		1 7 7 1	· ·	1		L .
BR. TANK & BOWER. HOUSE PILING & FLOOR PLAN H.A.S. 1952-1221:18 BR. F. DETBILS OF FOUNDATIONS FOR ADDITIONAL BOLER (BLA R. & 19-0-1921:18 BR. F. DETBILS OF FOUNDATIONS FOR ADDITIONAL BOLER (BLA R. & 19-0-1921:18 BR. F. DETROIT. STOKER BR. DETROIT. STOKER BR. SETTING PLAN FOR 72'X 18' BOILER BR. BROS. WATERTUSE BOILER BR. ARRAMT. OF BUNNERS & FURANCE FOR 350 H.R. BOILER M.A.B.A. 1-14-221-22 BR. PRES. PRES. ARRAMT OF RILLEY STEAM GEN'R' & UNIT R.S. & DEMISSON OF MARCOLOGY. BR. WAR. & 1-14-221-22 BR. NA. BURNER FOR R. C. C. BR. NA. BURNER FOR R. C. C. BR. WIND BOX DETRILS FOR 300 H.R. BOILER NA.B.A. 1-14-221-22 BR. WIND BOX DETRILS FOR 300 H.R. BOILER NA.B.A. 1-14-221-22 BR. ARRAMT. OF BURNERS & EURANCE FOR R.G. BOILER NA.B.A. 1-14-221-22 BR. WIND BOX DETRILS FOR 300 H.R. BOILER NA.B.A. 1-18-33-221-22 BR. NA. BURNER WITH S-52BX & F-T BLOCK NA.B.A. 1-18-33-221-23 BR. ARSEMBLY OF BURNER WITH S-52BX & F-T BLOCK NA.B.A. 1-18-33-221-32 BR. ASSEMBLY OF STRANGE FOR PIPE FUEL OIL BER NA.B.A. 1-20-221-32 BR. ASSEMBLY OF STRANGE NOW PIPE FUEL OIL BER NA.B.A. 1-20-221-32 BR. ASSEMBLY OF STRANGE NOW PIPE FUEL OIL BER NA.B.A. 1-20-221-32 BR. FUNDATION & FLOOR INSULATION ARRANGEMENT R.S. C. 1243-18-221-32 BR. FRONT CASING & SUGGESTED WIND BOX DETRILS R.S. C. 1243-18-221-32 BR. FRONT CASING & SUGGESTED WIND BOX DETRILS R.S. C. 1243-18-221-32 BR. FRONT CASING & SUGGESTED WIND BOX DETRILS R.S. C. 1243-18-221-32 BR. SLIDING DAMPER UNIT N. S. 5079 NA.B.A. (1831) 221-4 BR. MATERIAL SHEET NA.B.A. (1918) 221-4 BR. MATERIAL SHEET NA.B.A. (1918) 221-4 BR. MATERIAL SHEET NA.B.A. (1918) 221-4 BR. SLIDING DAMPER UNIT N. S. 5079 NA.B.A. (1831) 221-4 BR. SLIDING BOX DETRILS FOR FOR REILLY RO. BOX NA.B.A. (1805) 221-4 BR. SLIDING BOX DETRILS FOR JOON NA.B.A. (1805) 221-4 BR. SLIDING BOX DETRILS FOR SOUND BOX NA.B.A. (1805) 221-4 BR. SLIDING BOX DETRILS FOR JOON NA.B.A. (1805) 221-4 BR. SLIDING BOX DETRILS FOR JOON NA.B.A. (1805) 221-4 BR. SLIDING BOX DETRILS FOR JOON NA.B.A. (1805) 221-4 BR. SLIDING BOX DETRILS FOR JOON NA.B.A. (1805) 221-4 BR			· · · · · · · · · · · · · · · · · · ·	, - r	•	
BR POTRILS OF FOUNDATIONS FOR ADDITIONAL BOILER (BLE R.C. & 19-9-19 221:1) BR. POTRILS OF FOUNDATIONS FOR ADDITIONAL BOILER (BLE R.C. & 19-9-19 221:1) BR. SEMERAL DESIGN OF ADDITION TO BOILER HOUSE R.C. & 19-9-19 221:12 BR. DETROIT STOKER BR. SETTING PLAN FOR 72'X 18' BOILER HOUSE R.C. & 19-9-31 221:2 BR. BROS. WATERT UBE BOILER BR. BROS. WATERT UBE BOILER BR. ARRESMT. OF BUNNERS & FURRNCE FOR 350 HR. BOILER MABOLA 140-121:12 BR. ARRESMT. OF BUNNERS & FURRNCE FOR 350 HR. BOILER MABOLA 140-121:12 BR. NA. BURNER FOR R.C. G. BR. MAR. BURNER FOR R.C. G. BR. MAR. BURNER FOR R.C. G. BR. ARRESMT. OF BUNNERS & EURANCE FOR "A 6" BOILER MABOLA 13121:12 BR. WIND BOX DETRILS FOR 300 H.P. BOILER MABOLA 13121:12 BR. ARRESM TOF BUNNER WITH S-528 X & F-T BLOCK MABOLA 1313 221:3 BR. ARRESM TOF BURNER WITH S-528 X & F-T BLOCK MABOLA 1313 221:3 BR. ARRESM TOF BUNNER WITH S-528 X & F-T BLOCK MABOLA 1313 221:3 BR. ASSEMBLY OF "ISAR ACID SLUDGE TYPE FUEL OIL BR. KR.BG P-2017 221:3 BR. MO.I. AIR DOOR ASSEMBLY BR. GENERAL ARRESMT & FOR PITCH BURNING SYSTEM MABOLA 2017 221:3 BR. FRENT. EASING & SUGGE TYPE FUEL OIL BR. KR.BG P-2017 221:3 BR. FRENT. EASING & SUGGE TYPE FUEL OIL BR. KR.BG P-2017 221:3 BR. FRENT. EASING & SUGGE TYPE FUEL OIL BR. KR.BG P-2017 221:3 BR. FRENT. EASING & SUGGE TYPE FUEL OIL BR. KR.BG P-2017 221:3 BR. FRENT. EASING & SUGGE TYPE FUEL OIL BR. KR.BG P-2017 221:3 BR. FRENT. EASING & SUGGE TYPE FUEL OIL BR. KR.BG P-2017 221:3 BR. FRENT. EASING & SUGGE TYPE FUEL OIL BR. KR.BG P-2017 221:3 BR. FRENT. EASING & SUGGE TYPE FUEL OIL BR. KR.BG P-2017 221:3 BR. FRENT. EASING & SUGGE FOR REILLY ROBOLA 121:3 BR. SLIDING DAMPER LINIT Nº SOTO MARGE FOR REILLY ROBOLA 121:3 BR. SUDING DAMPER LINIT Nº SOTO MARGE FOR REILLY ROBOLA 121:4 BR. SINGLE ACTING HYDRROLIC TRIPLEX 15 X M. B. G. 3798 221:4 BR. SINGLE ROTING HYDRROLIC TRIPLEX 15 X M.B. G. 83 198 221:4 BR. SINGLE ROTING HYDRROLIC TRIPLEX 15 X M.B. G. 85 IPT 221:4 BR. FYPRISION JOINT U-TYPE		1 1		) }		
BP. POETBILS OF FOUNDATIONS FOR ADDITIONAL BOILER (BLD. R. C. 4) 19-D-18 22: 1. BP. P. GENERAL DESIGN OF ADDITION TO BOILER HOUSE R. C. 40 (9-D-2022): 12 BP. DETROIT STOKER  BP. SETTING PLAN FOR 72 × 18. BOILER  BR. SETTING PLAN FOR 72 × 18. BOILER  BR. BROS. WATERTUBE BOILER  BR. ARRAMT. OF BUNNERS FURRINCE FOR 350 H.P. BOILER MARGA 1-14. 221: 2 BP. BP. PRYSD ARRAMT. OF RILLEY STEAM GEN RT UNIT R. S. & DE FINAL 221: 2 BP. NA. BURNER FOR R. C. G.  BR. NA. BURNER FOR R. C. G.  BR. ARRAMT. OE BUNNERS FURRINCE FOR "RO" BOILER NAB. C. A-831 221: 2 BP. WIND BOX DETRILS FOR 300 H.P. BOILER NAB. C. A-832 221: 3 BP. ARRAMT OF BURNER WITH S-528 x \$ B T. BLOCK NAB. C. B-1132 221: 3 BP. ARRAMT OF BURNER NOTH SHOWN SYSTEM NAB. C. B-201/221: 3 BP. ASSEMBLY OF \$ I SAR. ACID SLUDGE TYPE FULL OILBREN R. B. C. B-201/221: 3 BP. ASSEMBLY OF \$ I SAR. ACID SLUDGE TYPE FULL OILBREN R. B. C. B-201/221: 3 BP. ASSEMBLY OF \$ I SAR. ACID SLUDGE TYPE FULL OILBREN R. B. C. B-201/221: 3 BP. ASSEMBLY OF \$ I SAR. ACID SLUDGE TYPE FULL OILBREN R. B. C. B-201/221: 3 BP. FUNDATION & FLOOR INSULATION ARRANGEMENT R. S. C. 126:186221: 3 BP. FERNT. ERSING & SUGGESTED WIND BOX DETRILS R. S. C. 126:186221: 3 BP. FERNT. ERSING & SUGGESTED WIND BOX DETRILS R. S. C. 126:186221: 3 BP. GENERAL BREAM & BURNER BOX & AIR SUPPLY DE R. S. C. 126:186221: 3 BP. GENERAL BREAM & BURNER BOX & AIR SUPPLY DE R. S. C. 126:186221: 3 BP. GENERAL BREAM & BURNER BOX & AIR SUPPLY DE R. S. C. 126:186221: 3 BP. GENERAL BREAM & BURNER BOX & AIR SUPPLY DE R. S. C. 126:186221: 3 BP. MATERIAL SHEET N. A. B. G. 1831/1 221: 4 BP. NO23 AIR DOOR ASSEMBLY BP. MARGA BASSEMBLY BP. MARGA BASSEMBLY BP. MARGA BASSEMBLY BP. DIMENSIONS FOR FL & FH PUMPS I.R. C. DOSSIA 221: 4 BP. DIMENSIONS FOR FL & FH PUMPS I.R. C. DOSSIA 221: 4 BP. DIMENSIONS FOR FL & FH PUMPS I.R. C. DOSSIA 221: 4 BP. SINGLE ROTING HYDRRULIC TRIPLEX 1 1 X 5 D. B. G. SINGLE ROTING HYDRRULIC TRIPLEX 1 1 X 5 D. G. S. ING. 221: 41 BP. EXPRISION JOINT U. TYPE				b :		4
BP. T. SENERAL DESIGN OF ADDITION TO BOILER HOUSE R. C. 4. 19.0-2021 12. BP. DETROIT. STOKER  BP. DETROIT. STOKER  BP. SETTING PLAN FOR 72' X 18' BOILER  BP. SETTING PLAN FOR 72' X 18' BOILER  BP. BROS. WATERTUBE BOILER  BP. ARRIGMT. OF BURNERS & FURANCE FOR 350 H.P. BOILER MABO A-146 221-22  BP. ARRIGMT. OF BURNERS & FURANCE FOR 350 H.P. BOILER MABO A-146 221-22  BP. PRPSD. ARRIGMT OF RILLEY STEAM GEN RTQ UNIT R.S. C. DE-MAD 221 22  BP. NA. BURNER FOR R.C. C.  BP. NA. BURNER FOR R.C. C.  BP. WIND BOX DETRILS FOR 300 H.P. BOILER MABO A-831 221-2  BP. WIND BOX DETRILS FOR 300 H.P. BOILER MABO A-835 221-3  BP. NA. ARRIAN OF BURNER WITH 5-528 x & B-7. BLOCK MABO B-1132 221-3  BP. ARRIAN OF BURNER WITH 5-528 x & B-7. BLOCK MABO B-1132 221-3  BP. ASSEMBLY OF \$\frac{1}{2}\$ SAR. BCID SLUDGE TYPE FUEL OIL BR.M. R.B. C. B-2109 221-3  BP. ASSEMBLY OF \$\frac{1}{2}\$ SAR. BCID SLUDGE TYPE FUEL OIL BR.M. R.B. C. B-2109 221-3  BP. FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S. C. 1263-85 221-3  BP. FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S. C. 1263-85 221-3  BP. FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S. C. 1263-85 221-3  BP. FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S. C. 1263-85 221-3  BP. FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S. C. 1263-85 221-3  BP. FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S. C. 1263-85 221-3  BP. FUEL HANDLING SYSTEM R.S. C. 1263-85 221-3  BP. GENERAL BR.R. MT. & DETRILS BURNER BOX & AIR SUPPLY PAR.S. C. 1263-85 221-3  BP. GENERAL BR.R. MT. & DETRILS BURNER BOX & AIR SUPPLY PAR.S. C. 1263-85 221-3  BP. MATERIAL SHEET NOT NO. 5-079 NABO BOSTO 221-4  BP. MATERIAL SHEET NOT NA. 5-079 NABO A-8-34 221-4  BP. MAR. ARR. & DOR ASSEMBLY NABO A-8-35 521-4  BP. DIMENSIONS FOR FL & FUN POMPS NABO A-8-35 521-4  BP. SINGLE ACTING HYDRAULIC TRIPLEX -1 \( \frac{1}{2}\) NABO A-8-35 521-4  BP. SINGLE ROOM 191-15-15-15-15-15-15-15-15-15-15-15-15-15			·	i . I		
BP. DETROIT STOKER  B.R. SETTING PLAN FOR 12'X 18' BOILER  B.R. B. C. 3035 221: 2  B.P. BROS. WATERTUBE BOILER  B.R. C. 3035 221: 2  B.P. ARRAMT. OF BURNERS & FURANCE FOR 350 H.R. BOILER MABOL A 146-221: 2  B.P. B.P. PRPSD. ARRAMT. OF RILLEY STEAM GEN'T & UNIT R.S. G. DE HARD 221: 2  B.P. NA. BURNER FOR R.C. G.  B.R. ARRAMT. OF BURNERS & FURANCE FOR "AO" BOILER MABOL A 1835 221: 2  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER MABOL A 1835 221: 3  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER MABOL A 1835 221: 3  B.P. ARRAMT. OF BURNER WITH S-528X & B-T BLOCK MABOL B-1132 221: 3  B.P. ASSEMBLY OF EISAR BOID SLUDGE TYPE FUEL OIL BER MABOL B-209 221: 3  B.P. ASSEMBLY OF EISAR BOID SLUDGE TYPE FUEL OIL BER MABOL B-209 221: 3  B.P. SE FUNDATION & FLOOR INSULATION ARRANGEMENT R.S. C. 1243-85 221: 3  B.P. SE FUNDATION & FLOOR INSULATION ARRANGEMENT R.S. C. 1243-85 221: 3  B.P. SE FUNDATION & FLOOR INSULATION BOX DETRILS R.S. C. 1243-85 221: 3  B.P. SE GENERAL BRAMT. OF RALLY TYPE "RO" BOILER R.S. C. 1243-85 221: 3  B.P. SE GENERAL BRAMT. & SUPPLY PARENCE R.S. C. 1243-85 221: 3  B.P. SE GENERAL BRAMT. & SUPPLY PARENCE R.S. C. 1243-85 221: 3  B.P. SE GENERAL BRAMT. & SUPPLY PARENCE R.S. C. 1243-85 221: 3  B.P. SE GENERAL BRAMT. & SUPPLY PARENCE R.S. C. 1243-85 221: 3  B.P. SE GENERAL BRAMT. & SUPPLY PARENCE R.S. C. 1243-85 221: 3  B.P. MARGERIAL SHEET NABOLING SYSTEM R.S. C. 1243-85 221: 4  B.P. MARGERIAL SHEET NABOLING SYSTEM R.S. C. 1243-85 221: 4  B.P. MARGERIAL SHEET NABOLING SYSTEM R.S. C. 1243-85 221: 4  B.P. MARGERIAL SHEET NABOLING SYSTEM R.S. C. 1243-85 221: 4  B.P. MARGERIAL SHEET NABOLING SON R.S. C. 1243-85 221: 4  B.P. DIMENSIONS FOR FL & FM PUMPS NABOLIER NABOLIER NABOLIER NABOLIER NABOLIER NABOLIER NABOLIER NABOLIER STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE STOKE S		1 144				
B.P. SETTING PLAN FOR 72' X 18' BOILER B.B. C. 3015 221 2  B.P. BROS. WATERTUBE BOILER B.P. ARROMT. OF BUNNERS OF FURNICE FOR 350 H.P. BOILER WABGA 746 221 2  B.P. ARROMT. OF BUNNERS OF FURNICE FOR 350 H.P. BOILER WABGA 746 221 2  B.P. W.A. BURNER FOR R.C.C. WAB CO. P. FHAM 221 2  B.P. W.A. BURNERS FURNICE FOR "RO" BOILER WAB CO. R-831 221 2  B.P. WIND BOX DETAILS FOR 300 H.P. BOILER WAB CO. R-832 221 3  B.P. WIND BOX DETAILS FOR 300 H.P. BOILER WAB CO. R-835 221 3  B.P. WIND BOX DETAILS FOR PITCH BURNING SYSTEM WAB CO. B-2109 221 3  B.P. WIND BOX DETAILS FOR PITCH BURNING SYSTEM WAB CO. B-2109 221 3  B.P. WIND BOX DETAILS FOR PITCH BURNING SYSTEM WAB CO. B-2109 221 3  B.P. WILLIAM DOOR ASSEMBLY  B.P. WILLIAM DOOR ASSEMBLY  B.P. FOUNDATION OF FLOOR INSULATION ARRANGEMENT R.S. C. 1263-84221 3  B.P. S. GENERAL BRRGMT. OF ROLLY TYPE "RO" BOILER R.S. C. 1263-84221 3  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. COLD BIR. DUST  B.P. S.P. S.P. S.P. S.P. S.P. S.P. S.P.		1		1 1	-	
BP. BROS. WATERTUBE BOILER  BS. GRRAMT. OF BUNNERS & FURNNCE FOR SSOHE BOILER MABOR 7:14 221 2  B.P.E.P. PRPSD. ARRAMT. OF RILLEY STEAM GENRT UNIT R.S. G. DF-H		1 7		1 1		i _
B.P. ARRAMT. OF BUNNERS & FURDING FOR 350 H.P. BOILER N.A.B.G. A.746. 221 - 2  B.P. B.P. PRPSD. ARRAMT. OF RILLEY STEAM GENRTQ UNIT R.S. G. DF-HAM 221 - 2  B.P. N.A. BURNER FOR R. C. C		[		I I		i _
B.F. PRPSD. ARROMT. OF RILLEY STEAM GEN'R'TO UNIT R.S. O. DF-114221: 22 B.R. """""""""""""""""""""""""""""""""""	- , - ,	1 1		1 i	•	
BR. N.A. BURNER FOR R.C. G.  BR. N.A. BURNER FOR R.C. G.  BR. ARRONT OF BURNERS & EURANCE FOR "RO" BOILER NA.B. G. A-831 221 .2  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER NA.B. G. A-835 221 .2  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER NA.B. G. A-835 221 .3  B.P. ARRONT OF BURNER WITH S-528 X & P-7 BLOCK NA.B. G. B-1132 221 .3  B.P. '' "PIPING FOR PITCH BURNING SYSTEM NA.B. G. B-1132 221 .3  B.P. NO.I AIR DOOR RESEMBLY  B.P. NO.I AIR DOOR RESEMBLY  B.P. GENERAL ARRONT OF ROLLY TYPE FULL OIL BAR NA.B. G. B-201 221 .3  B.P. GENERAL ARRONT OF ROLLY TYPE 'RO" BOILER R.S. G. 1263-86 221 .3  B.P. GENERAL ARRONT OF ROLLY TYPE 'RO" BOILER R.S. G. 1263-85 221 .3  B.P. GENERAL ARRONT SOFTAILS BURNER BOX & AIR SUPPLY DE R.S. G. 1263-85 221 .3  B.P. G. COLD BIR DUCT R.S. G. 1263-85 221 .3  B.P. MATERIAL SHEET NAMELING SYSTEM NA.B. G. 1911-40 221 .4  B.P. MATERIAL SHEET NAMELY SUPPLY DE R.S. G. 1263-85 221 .4  B.P. MARRONT OF BURNERS & FURNACE FOR REILLY RO'BOR NA.B. G. 1831 / 221 .4  B.P. NOZE RIR DOOR ASSEMBLY  R.P. MARRONT OF BURNERS & FURNACE FOR REILLY RO'BOR NA.B. G. R.S. 62 .221 .4  B.P. DIMENSIONS FOR FL & FH PUMPS I.R. G. D.S. STA 221 .4  B.P. DIMENSIONS FOR FL & FH PUMPS I.R. G. D.S. STA 221 .4  B.P. DIMENSIONS FOR FL & FH PUMPS I.R. G. D.S. STA 221 .4  B.P. DIMENSIONS FOR FL & FH PUMPS I.R. G. D.S. STA 221 .4  B.P. BOILER ROOM (1915) 221 .4  B.P. EXPRASION YOUNT U.TYPE C.S. INC. 2018 121 .50			·	: :	-/- /	1 .
BP. N.A. BURNER FOR. R.C. Co.  B.B. ARRGMT. DE BURNERS & FURRNCE FOR "RO" BOILER NA. B. Ch. 832 221 .2  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER NA. B. Ch. 834 221 .3  B.P. WIND BOX DETRILS FOR 300 H.P. BOILER NA. B. Ch. 835 221 .3  B.P. ARRGMT. OF BURNER WITH S-528 X & B-7 BLOCK NA. B. Ch. 8132 221 .3  B.P. "PIPING FOR PITCH BURNING SYSTEM NA. B. Ch. 82109 221 .3  B.P. ASSEMBLY OF \$\frac{1}{2}\$ I SAR. ACID SLUDGE TYPE FUEL OIL BER NA. B. Ch. 82109 221 .3  B.P. NO. I AIR DOOR ASSEMBLY NAR BOY OF FUEL OIL BER NA. B. Ch. 823 64 221 .3  B.P. S. GENERAL ARRAMT. OF RALLY TYPE "RO" BOILER R.S. Ch. 1263 64 221 .3  B.P. S. GENERAL ARRAMT. OF RALLY TYPE "RO" BOILER R.S. Ch. 1263 64 221 .3  B.P. S.P. COLD BIR DUST R.S. CO. 1263 65 221 .3  B.P. S.P. COLD BIR DUST R.S. CO. 1263 65 221 .3  B.P. MATERIAL SHEET NAR BOY A AIR SUPPLY PUT R.S. Ch. 1263 75 221 .3  B.P. SLIDING DAMPER UNIT Nº. 5079 NA. B. Ch. 1861 13 221 .4  B.P. SLIDING DAMPER UNIT Nº. 5079 NA. B. Ch. 1861 13 221 .4  B.P. SLIDING DAMPER UNIT Nº. 5079 NA. B. Ch. 805 19 221 .4  B.P. MARGIT. DE BURNERS & FURNACE FOR REILLY RO" BOR NA. B. Ch. 834 221 .4  B.P. DIMENSIONS FOR FLEFT PUMPS NA. B. Ch. 834 221 .4  B.P. DIMENSIONS FOR FLEFT PUMPS I.R. Ch. D.S. 514 221 .4  B.P. DIMENSIONS FOR FLEFT PUMPS I.R. Ch. 3798 221 .4  B.P. SINGLE RETING HYDRAULIC TRIPLEX -1 \$\frac{1}{2}\$ X b" D.B. Ch. 3798 221 .4  B.P. EXPRESSION YOUNT U. TYPE CUSSION 2018 127 55	1		ı		,,,,	
BR ARRANT. DE BURNERS & EURANCE FOR "RO" BOILER MA.B.C. A-832 221:2  BPRS """"""""""""""""""""""""""""""""""""		1	_	1		
BPRS  """""""""""""""""""""""""""""""""""		1	i e	1 1	-	[
BP. WIND BOX DETRILS FOR 300 H.P. BOILER NAB. A.835 221:3  BP. ARRYMT OF BURNER WITH S-528 X # B-7 BLOCK NAB. G. B-1732 221-3  BP. "PIPING FOR PITCH BURNING SYSTEM NAB. G. B-2109 221-3  BP. ASSEMBLY OF # I SAR. ACID SLUDGE TYPE FUEL OIL BRINA. B.G. B-201/ 221-3  BP. NO.I AIR DOOR ASSEMBLY NAB. G. B-201/ 221-3  BP. S. GENERAL ARRYMT OF RALLY TYPE ROW BOILER R.S. G. 1263-84 221-3  BP. S. GENERAL ARRYMT OF RALLY TYPE ROW BOILER R.S. G. 1263-85 221-3  BP. S. GENERAL ARRYMT OF RALLY TYPE ROW BOILER R.S. G. 1263-85 221-3  BP. S. GENERAL BRAGMT & SUGGESTED WIND BOX DETRILS R.S. G. 1263-85 221-3  BP. S. GENERAL BRAGMT & DETRILS BURNER BOX 4 AIR SUPPLY PLE R.S. G. 1263-85 221-3  BP. S. GENERAL BRAGMT & DETRILS BURNER BOX 4 AIR SUPPLY PLE R.S. G. 1263-85 221-3  BP. MATERIAL SHEET NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB. G. ISIN SUBJECT NAB.				]		
BP ARRAMT OF BURNER WITH S-528 X & B-7 BLOCK NAB G B-1132 221 3 BP "PIPING FOR PITCH BURNING SYSTEM NAB G B-2109 221 -3 BP ASSEMBLY OF \$ I SAR ACID SLUDGE TYPE FUEL OIL BAR NAB G B-2011 221 -3 BP NO. I AIR DOOR ASSEMBLY NAB G B-2011 221 -3 BP S GENERAL ARRAMT OF RHLLY TYPE RO" BOILER R.S.C. 1263-84 221 -3 BP R FROM SAN G B SUGGESTED WIND BOX DETAILS R.S.C. 1263-85 221 -3 BP S GENERAL BRRAMT SUGGESTED WIND BOX DETAILS R.S.C. 1263-85 221 -3 BP S GENERAL BRRAMT SUGGESTED WIND BOX DETAILS R.S.C. 1263-85 221 -3 BP S GENERAL BRRAMT SUGGESTED WIND BOX DETAILS R.S.C. 1263-85 221 -3 BP G GENERAL BRRAMT SUGGESTED WIND BOX DETAILS R.S.C. 1263-85 221 -3 BP G GENERAL BRRAMT SUGGESTED WIND BOX DETAILS R.S.C. 1263-85 221 -3 BP G G G G G G G G G G G G G G G G G G G				1.		į.
BP. "PIPING FOR PITCH BURNING SYSTEM NABG B:2109 221:3  B.P. ASSEMBLY OF # I SAR. ACID SLUDGE TYPE FUEL OIL BR. N.A.BG B:2011 221:3  B.P. MO. I. AIR DOOR ASSEMBLY  B.P. S. FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S. C. 1263:84221:3  B.P. S. GENERAL ARRONT OF RULLY TYPE "RO" BOILER R.S. C. 1263:85 221:3  B.P. FRONT GASING & SUGGESTED WIND BOX DETAILS R.S. C. 1263:73 221:3  B.P. S. COLD BIR DUCT REPORTED WIND BOX DETAILS R.S. C. 1263:75 221:3  B.P. GENERAL ARRONT & DETAILS BURNER BOX & AIR SUPPLY PIC R.S. C. 1263:75 221:3  B.P. MATERIAL SHEET N.A.B. G. 19:11:40 221:4  B.P. MATERIAL SHEET N.A.B. G. 18:31/1 221:4  B.P. SLIDING DAMPER UNIT N.S. 5079 N.A.B. G. 18:31/1 221:4  B.P. NOZZ AIR DOOR ASSEMBLY  B.P. NOZZ AIR DOOR ASSEMBLY  B.P. WIND BOX DETAILS FOR 300 H.P. BOILER N.A.B. G. R.S. S. 221:4  B.P. DIMENSIONS FOR FL & FH PUMPS N.A.B. G. R.S. S. 221:4  B.P. DIMENSIONS FOR FL & FH PUMPS N.A.B. G. R.S. S. 221:4  B.P. SINGLE ACTING HYDRAULIC TRIPLEX:1 X 5" D.B. C. 3798 221:4  B.P. SINGLE ROOM 19:117 U.TYPE C.S. IMC. 2018 1217:50						
B.P. ASSEMBLY OF # I SAR. ACID SLUDGE TYPE FUEL OIL BAR NA. B.G. B-2011 221 -3  B.P. NO. I. AIR DOOR ASSEMBLY  B.P. S. FOUNDATION & FLOOR INSULATION ARRANGEMENT  B.P. S. G. 1263-84 221 -3  B.P. GENERAL ARRENT OF RALLY TYPE "RO" BOILER R.S. G. 1263-85 221 -3  B.P. FRONT CASING & SUGGESTED WIND BOX DETAILS R.S. CO. 1263-73 221 -3  B.P. S. COLD BIR DUCT  B.P. GENERAL BRRGMT & DETAILS BURNER BOX & AIR SUPPLY POR R.S. CO. 1263-75 221 -3  B.P. MATERIAL SHEET  N.A. B.G. 19-11-40 221-4  B.P. MATERIAL SHEET  N.A. B.G. 1831/ 221-4  B.P. SLIDING DAMPER UNIT No. 5079  N.A. B.G. BOSTO 221-4  B.P. NOZE AIR DOOR ASSEMBLY  R.P. WIND BOX DETAILS FURNACE FOR REILLY RO" BOR N.A. B.G. R834 221-4  B.P. DIMENSIONS FOR FL & FH PUMPS  I.R. C. DISSTA 221-4  B.P. SINGLE ACTING HYDRAULIC TRIPLEX -1 12 X 5 D.B. CO. 3798 221-4  B.P. EXPANSION YOINT U-TYPE  C.S. IMC. 2018 1271-50						P .
B.P. NO. I AIR DOOR ASSEMBLY  B.P. 3.9 FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S. C. 1263-84221-3  B.P. 3.9 FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S. C. 1263-84221-3  B.P. 3.9 GEMERAL ARRAMT. OF RALLY TYPE RO" BOILER R.S. C. 1263-85221-3  B.P. 5.4 COLD BIR DUCT R.S. C. 1263-73 221-3  B.P. 5.4 COLD BIR DUCT R.S. C. 1263-75 221-3  B.P. 7 GENERAL BRAGANT & DETAILS BURNER BOX & AIR SUPPLY PIC R.S. C. 1263-75 221-3  T. FUEL HANDLING SYSTEM R.E. C. 19-11-40 221-4  B.P. MATERIAL SHEET N.A. & 19163 221-4  B.P. MARCHAL SHEET N.A. & 19163 221-4  B.P. SLIDING DAMPER UNIT Nº 5079 N.A. & 1831/ 221-4  B.P. NO22 AIR DOOR ASSEMBLY N.A. & R.S. & 1834 221-4  B.P. NO23 AIR DOOR ASSEMBLY N.A. & R.S. & 1834 221-4  B.P. WIND BOX DETAILS FOR 300 H.P. BOILER N.A. & 18-834 221-4  B.P. DIMENSIONS FOR FL & FH PUMPS I.R. & DS514 221-4  B.P. DIMENSIONS FOR FL & FH PUMPS I.R. & DS514 221-4  B.P. SINGLE RETING HYDRAULIC TRIPLEX = 12-85  B.P. EXPANSION JOINT U. TYPE C.S. INC. 2018 1721-50						
B.P. 3.0 FOUNDATION & FLOOR INSULATION ARRANGEMENT R.S. 6. 1263-84 221 - 3 B.P. 3.0 GENERAL ARRONT. OF ROLLY TYPE "RO" BOILER R.S. 6. 1263-85 221 - 3 B.P. 5. FRONT. GASING & SUGGESTED WIND BOX DETAILS R.S. 6. 1263-75 221 - 3 B.P. 5.P. COLD BIR DUGT R.S. 6. 1263-75 221 - 3 B.P. 5.P. COLD BIR DUGT R.S. 6. 1263-75 221 - 3 B.P. 7. GENERAL BRRGMT & DETAILS BURNER BOX & AIR SUPPLY PLE R.S. 6. 1263-75 221 - 3 B.P. 7. FUEL HONDLING SYSTEM R.E. 6. 19-11-40 221-4 B.P. MATERIAL SHEET N.A.B. 6. 1816 3 221 - 4 B.P. SLIDING DAMPER UNIT Nº 5079 N.A.B. 6. 180579 221 - 4 B.P. SLIDING DAMPER UNIT Nº 5079 N.A.B. 6. 180579 221 - 4 B.P. NO22 AIR DOOR ASSEMBLY N.A.B. 6. R-558 221 - 4 B.P. WIND BOX DETAILS FOR 300 H.P. BOILER N.A.B. 6. A-834 221 - 4 B.P. DIMENSIONS FOR FL & FH PUMPS I.R. 6. DS574 221 - 4 B.P. DIMENSIONS FOR FL & FH PUMPS I.R. 6. DS574 221 - 4 B.P. SINGLE ACTING HYDRAULIC TRIPLEX - 1 × 15  D.B. 6. 3798 221 - 4 B.P. EXPRISION YOUNT U-TYPE C&S. 100. 2018 1 721-50	<del> </del>	1				J
BP. S. GENERAL ARREMT OF RELLY TYPE "RO" BOILER R.S.C. 1263-85 221 - 3  B.P. FRONT CHSING & SUGGESTED WIND BOX DETAILS R.S.C. 1263-85 221 - 3  B.P. B.P. COLD BIR DUCT R.S.C. 1265-X5 221 - 3  B.P. COLD BIR DUCT R.S.C. 1265-X5 221 - 3  B.P. GENERAL BRRGMT & DETAILS BURNER BOX & AIR SUPPLY PIC R.S.C. 1265-X5 221 - 3  T. FUEL HANDLING SYSTEM R.E.C. 19-11-40 221 - 4  B.P. MATERIAL SHEET N.A.B.C. 18163 221 - 4  B.P. MATERIAL SHEET N.A.B.C. BOSTO N.A.B.C. BOSTO 221 - 4  B.P. SLIDING DAMPER UNIT Nº 5079 N.A.B.C. BOSTO 221 - 4  B.P. NOZI AIR DOOR ASSEMBLY N.A.B.C. R-558 221 - 4  B.P. WIND BOX DETAILS FOR 300 H.P. BOILER N.A.B.C. R-834 221 - 4  B.P. DIMENSIONS FOR FL & FH PUMPS I.R. C. D.S. STA 221 - 4  B.P. SINGLE ACTING HYDRAULIC TRIPLEX - 1 - X - 5  B.P. EXPRISION JOINT U-TYPE C.S. INC. 20181 221 - 50		10 -1	▼ · · · · · · · · · · · · · · · · · · ·	l l		
B.P. FRONT CASING A SUGGESTED WIND BOX DETAILS R.S. Co. 1263-73 221-3  B.P. B.P. COLD BIR DUCT  B.P. B.P. COLD BIR DUCT  B.P. S. Co. 1265-X5 221-3  B.P. S. Co. 1265-X5 221-3  B.P. GENERAL BRRG MT & DETAILS BURNER BOX A AIR SUPPLY PIC R.S. Co. 1263-75, 221-3  T. FUEL HANDLING SYSTEM  B.P. MATERIAL SHEET  N.A. B. G. 19163 221-4  B.P. MATERIAL SHEET  N.A. B. G. 1831/  B.P. SLIDING DAMPER UNIT No. 5079  N.A. B. G. 1831/  B.P. NOZZ AIR DOOR ASSEMBLY  N.A. B. G. R. S. S. B. S. S. S. S. S. S. S. S. S. S. S. S. S.			,	l	-	
B.F.B.P. COLD BIR DUCT  B.F. OF GENERAL BRRG MT & DETAILS BURNER BOX & AIR SUPPLY PUR R.S.Co. 1263-X5 221-3  T FUEL HANDLING SYSTEM  B.P. MATERIAL SHEET  N.A. & 6, 18163 221-4  B.P. """  NA. & 6, 1831/ 221-4  B.R. SLIDING DAMPER UNIT Nº 5079  N.A. & 6, 1831/ 221-4  B.R. NOZE AIR DOOR ASSEMBLY  N.A. & 6, 1831/ 221-4  B.R. NOZE AIR DOOR ASSEMBLY  N.A. & 6, 1831/ 221-4  B.R. NOZE AIR DOOR ASSEMBLY  N.A. & 6, 1831/ 221-4  B.R. WIND BOX DETAILS FOR 360 H.P. BOILER  N.A. & 6, 1834/ 221-4  B.R. SINGLE ACTING HYDRAULIC TRIPLEX = 15 X6"  D.B. Co. 3798 221-41  B.R. EXPRISION JOINT U-TYPE  C.S. INC. 2018 1 221-56						1
B.P. " GENERAL BRRG MT & DETAILS BURNER BOX & AIR SUPPLY PUR R.S.Co. 1263.158.221-3  T FUEL HANDLING SYSTEM R.E. Co. 19-11-40 221-4  B.P. MATERIAL SHEET N.A. & 18163 221-4  B.R. SLIDING DAMPER UNIT Nº. 5079 N.A. & 1831/ 221-4  B.R. NOZE AIR DOOR ASSEMBLY N.A. & R.S. & R.S. 58 221-4  B.R. MIND BOX DETAILS FOR 300 H.P. BOILER N.A. & A. 85514 221-4  B.P. DIMENSIONS FOR FL & FH PUMPS I.R. & D.S. 514 221-4  B.R. SINGLE ACTING HYDRAULIC TRIPLEX = 1 × 5" D.B. Co. 3798 221-41  B.R. FXPRNSION JOINT U. TYPE C\$S. IMC. 2018 1 721-50						i e
T FUEL HANDLING SYSTEM  BP. MATERIAL SHEET  N.A.B. 6. 19-11-40 221-4  BP. MATERIAL SHEET  N.A.B. 6. 19163 221-4  BP. NA.B. 6. 1831/ 221-4  BP. SLIDING DAMPER UNIT Nº. 5079  NA.B. 6. 1831/ 221-4  BP. NOZZ AIR DOOR ASSEMBLY  NA.B. R. R. S. S. S. S. S. S. S. S. S. S. S. S. S.						
BP. MATERIAL SHEET.  BP. "" NA. B. 1811 221-4  BP. "" NA. B. 1831/ 221-4  BP. SLIDING DAMPER UNIT Nº. 5079 NA. B. B. B0579 221-4  BP. NOZE AIR DOOR ASSEMBLY NA. B. R. R. S. S. B. SUND BOX DETAILS FOR 300 H.P. BOILER NA. B. R. A. B. S. S. S. S. S. S. S. S. S. S. S. S. S.		<del>  ~</del>				
BP. """  BP. SLIDING DAMPER UNIT Nº 5079  BP. NA. BG. 1831/ 221- 4  BP. NOZE AIR DOOR ASSEMBLY  BP. ARRGIT. OF BURNERS & FURNACE FOR REILLY RO BOR. N.A. B. G. R-834 221- 4  BP. DIMENSIONS FOR FL & FH PUMPS  BR. SINGLE ACTING HYDRAULIC TRIPLEX - 1 = X6"  BOILER ROOM  BP. EXPANSION YOINT U-TYPE  NA. BG. 1831/ 221- 4  N.A. BG. 1831/ 221- 4  N.A. BG. 1831/ 221- 4  N.A. BG. 1831/ 221- 4  N.A. BG. R-558 221- 4  N.A. BG. R-835 221- 4  D.B. Co. 18798 221- 4  SP. EXPANSION YOINT U-TYPE  C. S. INC. 2018 1 221- 56		-	· · · · · · · · · · · · · · · · · · ·			
BR SLIDING DAMPER UNIT Nº. 5079  BR. NOZI AIR DOOR ASSEMBLY  BR. ARRG'T. OF BURNERS & FURNACE FOR REILLY'RO" BOR. N.A.B.G. R-834 221. 4.  BR. WIND BOX DETAILS FOR 300 H.P. BOILER  BR. DIMENSIONS FOR FL & FH PUMPS  BR. SINGLE ACTING HYDRAULIC TRIPLEX - 1 - X6"  D.B. Co. 3798 221. 4.  BR. EXPANSION YOINT U. TYPE  C. S. INC. 2018 1 221. 50		<b>∤</b> ·−-	l	1		1
BP. NOZE AIR DOOR ASSEMBLY  BP. ARRGIT. OF BURNERS & FURNACE FOR REILLY RO"BOR. N.A.B.G. R-834 221. 4.  BP. WIND BOX DETAILS FOR 300 H.P. BOILER  N.A.B.G. A.935 221. 4.  BP. DIMENSIONS FOR FL & FH PUMPS  I.R. G. DS514 221. 4.  BR. SINGLE ACTING HYDRAULIC TRIPLEX-12 X6 D.B. C. 3798 221. 4.  T. BOILER ROOM  BP. EXPRISION YOINT U. TYPE  C. S. INC. 2018 1 221. 50					_	
BP. ARRGIT. OF BURNERS & FURNACE FOR REILLY'RO BOR. N.A.B.G. A-834 221. A. BP. WIND BOX DETAILS FOR 300 H.P. BOILER N.A.B.G. A-835 221. 4. BP. DIMENSIONS FOR FL & FH PUMPS I.R. CO. DS514 221. A. BR. SINGLE ACTING HYDRAULIC TRIPLEX - 1 X 5" D.B. Co. 3798 221. 4. T. BOILER ROOM 1941-51 221. 4. BP. EXPRISION YOINT U-TYPE C. S. INC. 2018 1 221. 50			· · · · · · · · · · · · · · · · · · ·		-	k -
BP. WIND BOX DETRILS FOR 360 H.P. BOILER N.A. 86 A-835 221. 4.  BP. DIMENSIONS FOR FL & FH PUMPS  B.R. SINGLE ACTING HYDRAULIC TRIPLEX - 1 \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\					_	
BP. DIMENSIONS FOR FL & FH PUMPS  BR. SINGLE ACTING HYDRAULIC TRIPLEX - 1 \( \frac{1}{2} \) X6"  D.B. Co. 3798 221-48  T. BOILER ROOM  BP. EXPRISION YOINT U-TYPE  C. S. INC. 2018   \$21-50						
B.B. SINGLE ACTING HYDRAULIC TRIPLEX = 1 \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\fr			· · · · · · · · · · · · · · · · · · ·			
T BOILER ROOM . 19-11-51 221-49 B.P. EXPRISION YOINT U-TYPE C. S. INC. 2018 1 221-50		•			_	l
B.P. EXPANSION YOINT U. TYPE CAS. INC. 2018121-50		├				1
PRI DUKHOLE 4 A C 78 AS PUMP D. O. U.O. U.O. U.O. V.C. O.				CFS. INC.	2018/	791-F1
		لــــــا	WYBDDLE 4 A 678 DD - FUMP.	ا بول ما بول	JY <b>IO</b>	F-1. 01

					- #1	المسا
	TYPE	FILE	TITLE	By	DRWG	FILE
			NO. 2 F. H. PUMP	1.R. Co.		
	BP BP			1.R. Co.		
	B.P.			N.A.B. &.		
						<u>.</u>
	–					
					<b></b> .	
<del></del>		·	en en en en en en en en en en en en en e			
		-			•	• • •
· -	·		· · · · · · · · · · · · · · · · · · ·			-
		-				-
					·	
					_	
			and the second second second second second second second second second second second second second second second			
<del>-</del> -		:-			<b>.</b>	
			i di di di di di di di di di di di di di	• •	- ·	
- (						
- `			*** ** * * * * * * * * * * * * * * * * *			•
					· .	
	-			·	Ì	
	ļ <u>—</u>					
	_	<b></b>				
		-				
						- ···
	-					
				•,	•	
				<b>-</b> · · ·		
					<i></i>	
				<u>.</u>		
					_	-
	ļ			<del></del>		·
(	<b>}</b>				: "	
	1	·			•	
	l				<u>.</u> .	
					-	
***************************************	*******					*********
	•••••					
~~~						

	TYPE	FILE	Title	By	DRWG	FILE#
<u> </u>			DETAILS OF NEW STEAM LINE TO REFINERY	R.C. C.	19-0-12	222 - 1
	7	OS	DETRILS OF NEW STERM LINE TO REFINERY GENERAL LAYOUT & PETRILS OF OVE H'D STEAM LINE AT	R. E. Lo.	19-0-13	222.2
	7	PS	GENE. LAYOUT & DETAILS & BILL OF MATERIAL " "	R.E. Co.	19-0-15	222.3
	7	25	DETAILS OF BEAMS & UPRIGHT SUPPORTS AT. B.H.			
	工	ØS.	" VARIOUS MEMBERS OF OVRH'D. AT. B.H.			
	<i>T</i>	Mid		R. E. Co.		
	ナ	MS	WBETAILS OF STEEL SUPPORTING FRAME W'KOVR'HO	R.C. C.	19-D-14	222-7
	BP.	95	GEN'L LAYOUT OF IMPORTANT STERM LINES AT REF.	R.E. Cg.	19-12-8	222 - 8
			and a second control of the second control o	1		
			to make a company and the make and the second of the secon		[
·- · ·		-	<u> </u>			· -
						-, ·- -
					•	
						 '
L.aa						· · •
						. • •
]				- · ·	
· ·]] .]	
- ;'				-	.	·
`	.				}	,
						: ز د - د
		. :				
	ļ ·					
	 					
				-		
				•	.	
						
					dd	
					• • •	
				· · · · ·		• .
:						· ·
6	1]	
			<u> </u>	İ		
<i></i>						
	├ <i></i>					
			·			
	. 1	1		!	il	
		********		~~~~~		

***************************************				*****************	~~~	***************************************
		*******		***************************************		
***********					***************	~~~

·		·-i				#
	YPE	ALE	TITLE	BY		
	7	10	LRYOUT OF DRAINAGE SYSTEM	R.C.Co.	19-15-1	223-1
			PROFILE "	R. e. Es.		
		ادم	DETAIL OF SUMP & SETTLING BASIN	R.C.Co.	19-13-3	223-5
			DIGESTER TANK FOUNDATION	R.E.Cs. R.E.Cs.	FILED	223-4
	 	<u></u>	# # # # # # # # # # # # # # # # # # #	R.C. Co.	14-2-14	223-5
	} -		······································	R. C. Co.		223.6
	 			RC.C.		223-7
				•		
	l					
		- ·			·	
	- -					
••						
			· · · · · · · · · · · · · · · · · · · · ·			
				-		-: -
			· · · · · · · · · · · · · · · · · · ·			. · · ·
	-					
]					
]					
				· - · - ·		
		<u> </u>				
· .						
		ļ. ₋ _	·			
]	· · · · · · · · · · · · · · · · · · ·		-	
		-				
·-·· - -·		 				
		 -		· · - ·		
	}				-	
-						
				•		
						
				l .		,
		-				
	1	 -				· · · ·
	T^{-}					
						· - ·
	ļ	ļ			.]	
<u> </u>	ļ					
]					
] .			;		
· · ·						
	 	<u> </u>		•		
		<u> </u>		• • • • • • • • • • • • • • • • • • • •		
	11	لــــا	<u> </u>			
			and the second of the second o			·

	TIPE	FILE	Title	BY	DRUG	FILE
-	1				····	
کست		- · -				· • · · · · •
	-					
	-	- '				
			· · · · · · · · · · · · · · · · · ·			
					-	
		I				
	_	L			. ,	
	-					
						-
						• .
- - -··	·	·				· ·
		-				
					·	
	1		the same of the contract of th			 .
	-					
	-					
	-			-		
	1					•
				•		
· {		[Ċ		
	1]				<u> -</u>
		_				
		ļ <u>.</u> .				
	.					
						· <u>-</u>
·						•
	1					
	┥		•		- -	
						·· · · · · · ·
	-					
	-			۳.		
		i				-
	1				•	••
	.			<u>.</u>		
						<u>.</u>
	ļ					
-(↓	ļ .			•	
						·
	-	.	<u></u>			
	-			-		
·						:
			<u> </u>	-		••
	. L	L <u></u> -				
	٠.					
	~~~~	~~~~				

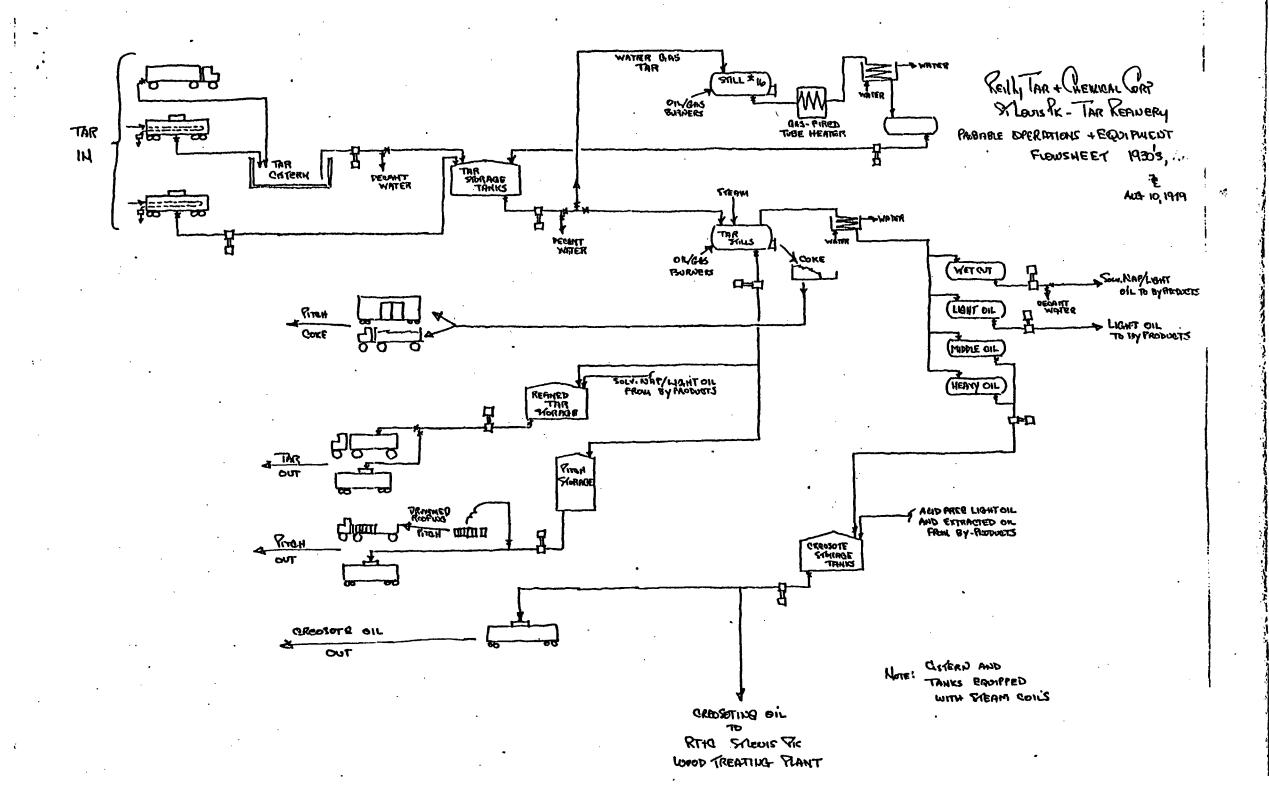
	. •	•		225		
,	TYPE	File	Title	BY:	المحرة ا	FILE .+
(	7	25 25	PROPOSED CHANGE ROOM CHANGEROOM- REINFORCING PLAN	R.C.Co. Cowin feo.	1	255-1 5
		•				
				·		
:.					·	
<b></b>					·	
			•	·		
<del></del>					,	
				·	·	
_(					_	
				,		

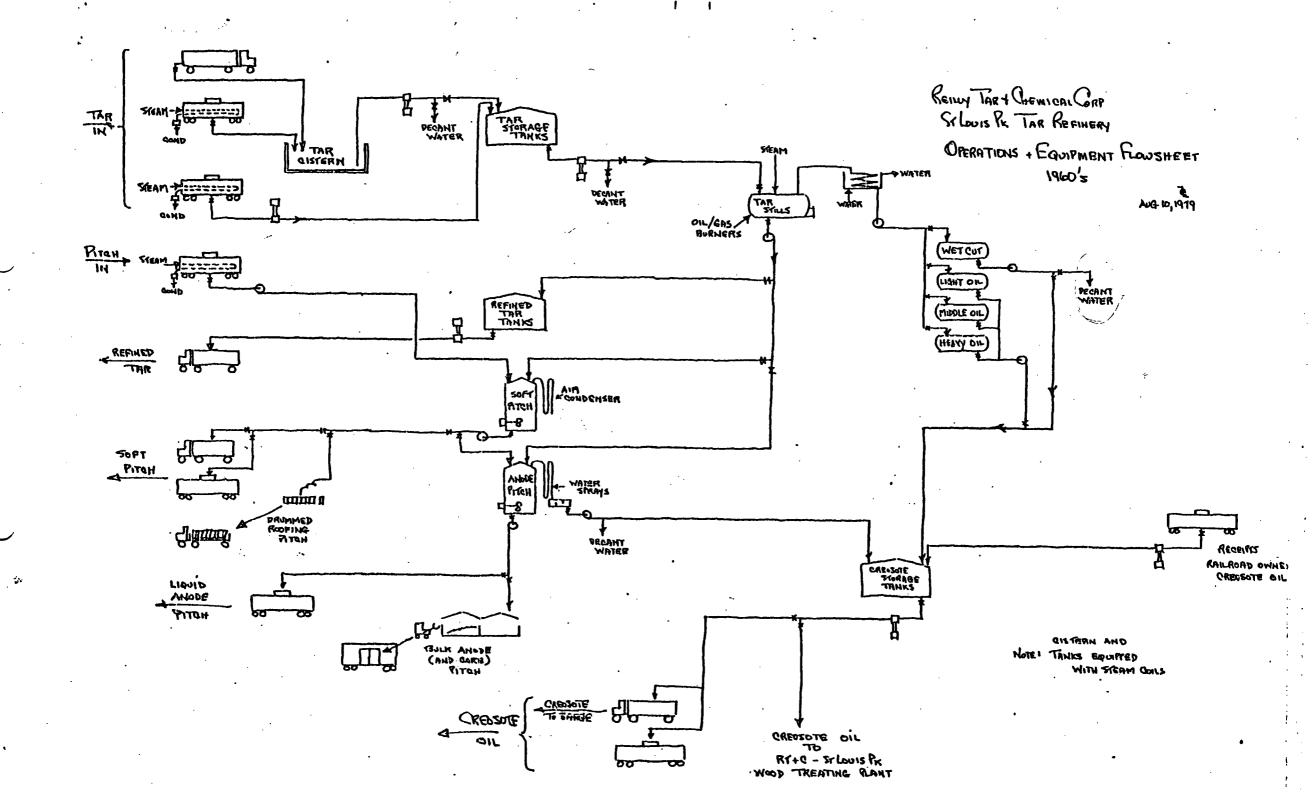
	TYPE	1	TILE	BY	DRWG#	FILE#
		05	BLACKSMITH SHOP & TIE / HANDLERS ROOM CARACE - PLAN & ELEVS.	RCCo		226-
		4	CARACE - PLAN & FLEVS.	7		1 - 5
-	-					li:
			·· · · · · · · · · · · · · · · · ·	<b>-</b>		
	]					
	ļ					
· - · -				·		
	<del></del>					
- · ·		<b>-</b>				•
		-	•			
	]	_				-
						.e
	ļ	ļ	<u> </u>		-	<b></b>
	·	<del> </del> ·				<b>.</b>
		1				-
<b>-</b>	1 -				·	•.
	]					
	<b>.</b> .		<del></del>			
<b>.</b>		<del> </del>				
··· <b>-</b>						
		<del> </del>	<del></del>	• .	·	
	1	<b>†</b>	<del></del>			
	]	<u> </u>				
		l.  -				
	.] .					
				· '		
		<del> </del>				
	1 -		• • • • • • • • • • • • • • • • • • •			
<del>-</del>	1-	<del>                                     </del>				•
				• • • •		
	<u> </u>	ļ				
	.	ļ				
	╂	<del> </del> -				
	<b> </b>	<del> </del> -				
-		1				
		1				• •
•	] -			-		
		J				• • •
					• .	. جست

		(				661	
	T T T T B B B B B B B B B B B B B B B B	ELEVATED PITCE PIPING DETAIL ELECTRIC HEATI ELECTRODE PITCH PIPING LAYOUT I A CARBON STL. F RECEIVER PAN ELEVATED PITCH S " " ECONDENS PTE PANS 8 STORAGE TANKS	S & SUPPORT ING POWER & LIGHT PLANT LATURT (8,000 375 FOR ELECTROPE (8,000 FLUSH BOT. VALVE VENTILATORS 1 PANS 1 PANS 1 PET. OF PIT 1 REP. CRED. CO. MPL 1 12-6 \$ x 28-3".	TO - 16,000 TON/YEN TON/DAY PITCH PRODUCTION E-MODEL FV CH DOORS S.MINN.	~ · ·	55711 D-152 D-153 D-153 D-1348 1023 B	File ? 267-1 267-2 267-4 267-6 4-9 41-12 4=13
				e e e e e e e e e e e e e e e e e e e			
- <b>(</b>				·			
				·			
·	· .	•					
			·	•			
<u> </u>							
			***************************************		***************************************		
			**************************************		**************************************		

	Type	Fil el	REMODELING OF ADZING & BORING MILL	BY	DRWG#	File#
	7	15	REMODELING OF ADZING & BORING MILL	E.T.C.Co		268-/
	•				i	
				•		
<b>_</b>				•		
		.	in the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of			<u></u>
						:-
· ·•				-		
-					-	~ •.
			· -	!		
	1	'				
	1 "					
	1					
			· · · · · · · · · · · · · · · · · · ·			
				. :		
;	ļ					
	ļ		and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o			
	1					
		ł				
	1					
	1	-		-		
	1					
	į		•	•		
	1	į				- ·· · <del>-</del>
		1			] .	
					<b>.</b>	
	]					
	ļ					
	<del> </del>	ļ.—				
·		{				
				-		
					:	
	·	}- ··				
<b>;</b> :{ -	<del>  - · · ·</del>					
	<b>1</b> ·-			·		
	1	1				
		1	· · · · · · · · · · · · · · · · · · ·			
		1		· . <u>.</u> .		

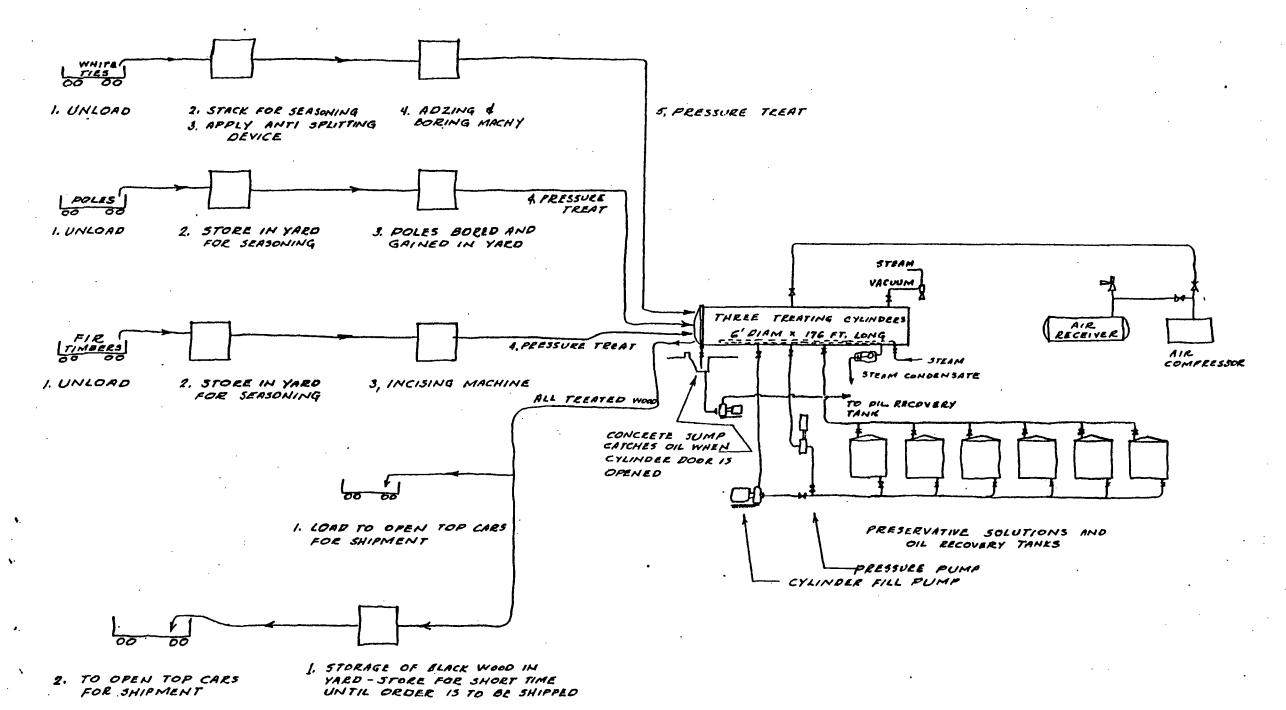
	TYPE	F _i , €	TITLE	BY	DRWG#	FILE #
	7	٠ , ر	TITLE THERMOCOUPLE WELLS for STILLS 9,10,11,12,13,14,15,\$16	e.c.c		269-1
-(			,	ــ. ت. <u>ت.                                </u>	- "	
			The same was made and same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and			
			and the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contr			
	- <i>-</i>			· <del></del>		
			<del></del>	<b>-</b>		
	<b> -</b>					
		<del> </del>			-	
			A CONTROL OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P	•	•	
	-					
					,	
			and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o		• •	•
		} <b>-</b>				
			and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s			
			and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s			
. <b></b>		١				
			*		·	
		ļ <u>.</u>				
<b>.</b>						·
	l			<b>.</b> .	<b>.</b>	
	1	]		!	, ;	
<b>.</b>	]		· · · · · · · · · · · · · · · · · · ·			
		ľ			·	
	1	· ·				
				•		
		-				
	1	1		• •		
	1		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		· · •	
		-			<del>.</del> .	<u>-</u>
	1	-	and the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contra		-	••••
		† <i></i>		· • ·	· · · · · · · · - ·	<del> </del>
			to the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contrac		•	
		· -	and the same to be a second or the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to			
	· -					
	<del> </del>	}				
			and the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contra			
		<del> </del> -			·	
	<del> </del>	<del> </del>				
		<b></b> -		. ~		
	<del> </del> -			<u>.</u> .		· · · · -
	<del> </del> -			<del></del>		
				,		
<b>-(</b> *:-	<del> </del>	<del> </del>		. <u>.</u>		
	<del> </del>	<del> </del> -			· -	
		ļ .				
		-				
	<b> </b>	ļ			<b>.</b>	
	ļ	ļ				
		<u> </u>	L			
			· Production is			





.

-



PEILLY TAR AND CHEMICAL CORP.

FLOW SHEET - TIMBER CREOSOTING
OPERATION - ST. LOUIS PARK, MINN.

# REILLY TAR & CHEMICAL CORPORATION

TO:

office: Lab

FROM: William R. Roder

DATE: May 2, 1979

SUBJECT: TRIAL PREPARATION:

HISTORY OF WELLS IN THE ST. LOUIS PARK AREA

Wells on the Plant Site:

Thirteen wells were on the plant site at time of purchase from the Minnesota Sugar Beet Co.

Twelve of the wells were shallow. (1) Attempts to use these shallow wells were unsuccessful, due to clogging of the well screens with sand and silt. (2) Reports have placed the depth of the shallow wells at 50-60 ft. (3) and from 100-200 ft. (4) Based on the clogging information the wells are probably located in the middle and lower drift Aquifers (80 ft. and not in the St. Peter sandstone; if the wells were 100-200 ft. deep.

The middle drift aquifer is a silt and clay formation, while the lower drift contains some sand. The St. Peter sandstone is a light yellow to white, well sorted quartzose sandstone.

One deep well was on the site. It was drilled in 1898 to a depth of 866 ft. to the Mt. Simon-Hinckley sandstone (a medium to coarse grained sandstone). The deep well was located in the southeast corner of the plant site 600 ft. from the pump house. (6) The well had a 16" casing to 58 ft., 12" casing to 100 ft., and a 10" casing to 150 ft. was added in 1917. The well was plugged and sealed about 1933 on the advice of the McCarthy Well Co., in belief this would eliminate the problem the city of St. Louis Park was having with the taste of the water from their newly drilled well. (7)

An additional deep well was drilled 909 ft. into the Mt. Simon-Hinckley sandstone by the McCarthy Well Co. in 1918, close to the pump house. The well was cased with a 12" casing to 65 ft. (8) In 1933 a 10" casing was added to a depth of 73 ft., an 8" casing to 260 ft. and a 4 1/2" casing to 373 ft., again on the advice of the McCarthy Well Co. (9

The site well water was analyzed by Mr. T. E. Courtney of Reilly Labs, for phenol content, in May 1933, using the Gibb Method: The phenol concentrations were as follows:

well with casing to only 65 ft. = 0.050 ppm well with casing to 373 ft. = 0.020 ppm water from peat bog N.W. of site = 0.010 ppm Maywood boiler feed water = 0.040 ppm

# REILLY PAR & CHEMICAL CORP ATION TRIAL PREP. (2) HISTORY OF WELLS

The well water was reanalyzed by Mr. Courtney in June, 1933. The phenol content was 0.030 ppm. (11)

The 0.010 ppm phenol concentration of the peat bog located northwest of the plant site indicates another source of phenol contamination, to the northwest of the plant site. Since the drainage of the area is to the south and east thru the plant site. (12)

The Chapin method was used in Nov., 1938 to determine the phenol concentration of the site well; no phenol was detected. (13) This well water had 352 ppm told solids.

A letter written by Mr. McLellan in 1940 indicates the site well water was never used for drinking purposes due to taste and odor.  $^{(14)}$ 

A new hydro-pneumatic pumping system was installed in the well in 1955. (15) Tarry material caused this pump to fail in 1958. The plant personnel were of the opinion the well had become contaminated with tar to the 226 ft. level. Therefore, a packer was placed inside the 8" casing to a depth of 260 ft. (16) I could not determine the status of the site well after 1958 with the information I have available. Except, the plant office and showers were hooked up to city water in the early 1960's. (17)

The site well was opened in 1977 by the Barr Engineering Co. for testing. A tarry material was on the pipe to 40 ft. below the well head. (18)

The following phenol determinations have been made on the site well water over the years. (19)

Year	Lab.				Method	Phenol PPM
1933	Reill	y			Gibb	0.020 - 0.050
1938	Reill	y			Chapin	0.000
1968	Twin	City T	esting	ζ	Unk.	0.020
1977 Sero	o Labs	•			4-Aminiantipyrine	
After 1	minute	of pu	mping	100	gpm	0.020
	.5 "	"	- 11	11		0.011
	30 "	**	11	**		0.008
<del>-</del>	00 "	**	**	11	•	0.005

The above phenol determinations indicate the phenol content of the site well water has remained constant over the years; since the coal tar creosoting operation began. The phenol content is above the allowable federal limits of 0.001 ppm phenol for drinking water. But, apparently the site well water always has been since the water was never used for drinking purposes.

According to the Barr Engineering Report, the Mt. Simon-Hinckley formation is isolated

G-102AT-P

# REILLY TAR & CHEMICAL CORPORATION TRIAL PREP. (3) HISTORY OF WELLS

from the prairie du Chien-Jordan aduifer, except for recharge thru wells that provide a direct pathway between the Mt. Simon-Hinckley and the upper aquifer. (20)

Therefore, if the site well was a direct pathway for contamination to the Mt. Simon-Hinckley aquifer, why didn't the phenol concentration of the site well water increase over the years?

City of St. Louis Park Municipal Wells

Available information indicates the City started drilling for their water supply in the early 1930's.

The first complaint from the city was in 1933, when a well drilled southeast of the plant site (6021 W. 36th St.) had a swampy taste. The well was originally drilled to a depth of 393 ft. (Jordan formation) and cased the entire depth. The well was extended another 150 ft. to the St. Lawrence sandstone. The taste was not eliminated and a trace of phenol was reported. (21) This was when the McCarthy Well Co. advised the plant manager to seal the old deep well and case the 909 ft. well to 373 ft. The City well water was approved by the State Sanitation Dept. and used for a short period. (22) The well was also in service in 1938. (23) The well water was analyzed by E. A. Hicokok Assoc. in 1969. The phenol content was 0.012 ppm. (24)

The city draws its water from the St. Peter, Jordan and Hinckley aquifers. A 1969 E. A. Hickok and Assoc. report indicated water from the Jordan and Hinckley formations to be less than 0.005 ppm. (25)

The following phenol concentrations have been reported over the years on the following city wells. (26)

ST. LOUIS PARK MUNICIPAL WELLS

			•	<u> </u>	<u></u>		Phenol 1	PPM	,	
ÆLL	#	GEO. FORMATION	LOCATION FR. PLANT SITE	L ₁₉₄₆	1947	1948	1968	1969	1974	1977
1.	2936 Idaho Ave.	St. Peter	N	· -	_	<del>-</del>	_	0.014	◆.002-0.035	
3.	2924 Idaho Ave.	St. Peter	N	· <b></b>	-	-	0.002	0.012	-	202
4.	W. 41st & Natchey	Jordan	SE	0.100		0.005-0.070	0.008	0.014	-	-
5.	Wyo & 34th St.	Jordan	W	0.020	<del>-</del>	-	. <del>-</del>	0.014	-	-
6.	W. 42nd & Zarthan	Jordan	S		0.007	0.015	0.0025	0.023	-	-
٠0.	29th & Jersey	Jordan	N		-	-	<b>-</b> '	0.014	◆.002-0.013◆	.002-0
.1.	29th & Idaho	Hinckley	N	-	. •••	-	0.000	trace	-	-
.2.	42nd & Zarthan	Hinckley	S	_	-	-	0.000	0.018	-	_
.3.	Cedar Lake Rd. & Ala.	Hinckley	NE	-	-		0.000	0.018	•	-
4.	Cedar Lake Rd. & Ala.	Jordan	NE	_		-	0.000	0.009	-	-

TION TRIAL PREP.
HISTORY OF WELLS

(5)

The phenol concentration of the city wells were determined to be less than 0.005 ppm by the Minnesota Dept. of Health on April 16, 1970. (27)

The above data shows no indication that the city's wells have become contaminated over the years. The upper aquifers appear to have no higher phenol content than the lower aquifers, and I find little evidence from this data that the wells to the south and east of the plant site are higher in phenol than the wells to the north or west.

However, according to the Barr Engineering Report, their information was not sufficient to explain the reason for the phenolic contamination of the city's St. Peter and Jordan wells located in the city's well field north of the Plant Site. Since their calculated flow time through the aquitards are on the order of 55 year through the siltstone stratum of the St. Peter and at least 34,000 years through the various aquitards between the Jordan and the Mt. Simon-Hinckley, thrus under the assumed permeabilities and gradients it seems unlikely that the coal tar derivatives that are known to be present at the base of the glacial drift and in the platteville limestone could have traveled to the Prairie du Chien-Jordan through the siltstone stratum of the St. Peter, or to the Mt. Simon-Hinckley through the Eau Claire. (28) However, the water level gradients are sufficient to transmit seepage from uncased wells to the City's wells in the St. Peter Aquifer. However, not enough time has elapsed for this to be (29) the source of phenol in the city's St. Peter wells.

In the case of contamination of the citys Jordan wells, the computed water gradients indicate ground water could not be transmitted from the plant site to the City's Jordan well field north of the plant site. (30)

The Barr Report, also, stated the phenol concentration in the Mt. Simon-Hinckley wells on the plant site and the city well field could be attributed to movement of coal tar derivatives from the Mt. Simon-Hinckley well on the site to the City's Mt. Simon-Hinckley wells. (31) If this is the case why isn't the phenol concentration higher in the Mt. Simon-Hinckley aquifer, due to the direct pathway for contamination?

One attempt to explain the phenol concentration in the city's wells to the north of the plant site was by high volume pumping of the wells north of the site creates a cone of depression around the wells and corresponding a local reversal in the direction of ground water flow occur. (32) However, the observed movement of ground

TRIAL PREP. HISTORY OF WELLS

water in the St. Louis Park Area is in a southeasterly direction. (33)

Why, could not one explanation be that the phenol contamination, also have come from some source north or west of the plant site before the creosoting operation begun. Phenol Concentrations of 0.010 ppm (10,12) were found in a peat bog Northwest of the plant in 1933 and the plant site water has never been suitable for drinking. The time element of 55 years through the siltstone of the St. Peter could be explained, plus the reason for phenol in the city's well field to the north.

Polynuclear Aromatic hydrocarbons have also been reported in the city's well water.'
In 1977 the Barr Report showed no PNA in City Well #3 at detection limits.of 0.030 ppm. (However, a 1978 Minnesota Dept. of Health Report on PNA in the St. Louis Park drinking water reported the following wells should be abandoned due to high PNA concentrations. (3

Well #	and Location	Fr. Plant Site	Geo.Formation	PNA ppm	Phenol PPM
ncil 1	and rocasion	111 12000 0210	000110111111111111111111111111111111111	, run ppm	I MCMOI IIM
7	2500 Louisianna	Ave. North	Jordan ·	0.000139	0.013
9	. "	North	11	0.000248	0.013
10	29th & Jersey Av	ve. North	- 11	0.001363	0.014
15	11	North	11	0.001924	

All the city wells were tested and only wells 10 and 15 exceed the allowable limits for PNAs in drinking water. All the wells with high PNA concentrations were in the Jordan aquifer and to the north of the plant site.

Again, why not explore a source of contamination to the north or west of the plant site before 1900. We found phenol north and west in 1933, the time element can be explained, through the St. Peter and this could be the reason the Jordan Wells to the north are contaminated, with phenol & PNA. Since the Barr Engineering report states the Jordan wells north of the plant site, could not be containinated with phenols from the plant sites ground water. (36)

Residential and Commercial Wells in the St. Louis Park Area

The first written complaint by a resident in the plant site vicinity due to a phenol taste in their well water occurred in 1938.

The Minnesota Dept. of Health in 1938 sampled and analyzed for phenol, two residential wells and one commercial well. All located east of the plant site. (37)

S-102AT-P

# REILL AR & CHEMICAL COR

RATION

TRIAL PREP. HISTORY OF WELLS

Location of Well 3363 Brownlow 3355 Brownlow Hedberg-Friedheim Gravel Pit Geo. Formation lower drift

Phenol PPM 0.221

Jordan

12.30 0.00818

The commercial well was drilled originally to the St. Peter and no tarry taste present, however, after extending the well to the Jordan, a tarry phenolic taste was observed. (38)

The Prestilite Co. also had a 300 ft. well (Prairie du Chien formation) with a phenolic taste to the water. They were reported to be able to remove the taste with some type of filter. (39)

In 1940 a Mr. E. D. Jones filed a complaint with the plant that his well water had an obnoxious taste, due to our coal tar operations. The Jones well was located at 3320 Louisianna Ave. on the hill east of the plant site. The depth of the Jones well was 85 ft. Two employees at the time, Ed Weiner and Frank Williams, neighbors of Jones, indicated they had to abandon their wells, along with others in the area over the last 10 years (1930-1940). (40)

Ole Peterson, the creosoting foreman at the time, stated wells in the area had had the phenolic taste and odor before Reilly purchased the plant site. Jim Smith of Mpls. Gas and Light back up Mr. Peterson's statement. (41)

All the wells were sampled and analyzed by the State Board of Health, and were passed as safe. (42)

Most of the residential and commercial wells in the area which were drilled to the Platteville have now been abandoned. (43)

Phenol analysis of various residential and commercial wells in the area over the years have been tabulated.  $^{(44)}$ 

#### TRIAL PREP. HISTORY OF WELLS

### RESIDENTIAL AND COMMERCIAL WELLS

	•				F	henol PPM		η
11 Co. & Location	Geo. Formation	Direction of Site	L ₁₉₃₈	1968	1969	1974	1976	1977
iberg Gravel -	Jordan	E	0.00818		-			
ume Ind. Lake St. & Taft	Prairie du Chein	s	-	-	0.028	0.002-0.004	0.002	0.002-0.03
Sourt Plasl. 27th W. of La.	St. Peter	E			0.023			
( r 1. 36th Brunswidk	Prairie du Chein	SE		0.008	0.020	Ф.002-0.007	<0.002	
	St. Peter	SE	•			1.0 - 1.4	0.14-0	0.17 0.390
erilized Diaper	Jordan	E					◆0.002	
mesota Rubber	Jordan	SE				Ф.002-0.009	<0.002	
cdick Grain	Jordan	E				<0.002017	<0.002	
thodist Hospital	Jordan	SE					<0.002	
ctman's 3700 Colorado Dr.	St. Peter	SE		•			<0.002	
3 Brownlow	lowerdrift	E	0.221					
55 Brownlow	<b>!!</b>	E	12.3					

TER-OFFICE CORRESPONDENCE

### REILLY TAR & CHEMICAL CORPORATION TRIAL PREP. (9)

HISTORY OF WELLS

Only the Midco Register Co., formerly Robinson Rubber Co. had a phenol content considerably higher than found in any of the city wells or commercial wells. Again the well is located in the St. Peter and contamination would have to be by a direct pathway to the St. Peter aquitard. (45) Could the well have been contaminated by the former owner, the Robinson Rubber Co. One commercial well has been analyzed for PNA's, the Flame Industry well located south of the plant site at Lake St. and Taft Ave. The well is drilled to the Prairie du Chien aquitard, and no PNA's were detected with a detection limit of 0.03 ppm. (46)

### Monitoring Wells:

Monitoring wells were drilled by the Barr Engineering Co. for their investigation of the area. The following phenolic concentrations were obtained. (47)

TRIAL PREP.
HISTORY OF WELLS

•			Phenol F	PPM———————————————————————————————————	•
Monitoring Well #	Formation	Direction Fr. Plant Site	1976	1977	
W-1	Platteville	NE	<b>4</b> 0.002	<0.002	
W-2	Middle Drift	. N	<0.002	<0.002	
W-3	Middle Drift	N on Site	<0.002	<del>-</del>	_
W-5	Middle Drift	SE Corner Site	0.153	0.035-0.022	
w-6	11	SW Corner Site	0.043	0.050-0.19	
-7	11	West	<0.002		
√ _{w-8}		South	<0.002	<0.002	
W-9	Middle Drift	SE	3.00	1.10-0.60	
W-10	16	SE	0.002-0.004	-	
W-11	11		0.004-0.023	-	
W-12	11	SE	0.014	-	
W-13	11	SE	<b></b>	56-4.8	
W-14	St. Peter	SE	_	<0.0068-0.002	
W-15	Lower drift	SW Corner Site	· <b>-</b>	0.028-0.037	
w-16	Lower drift	S		0.002-0.004	•
-17	Lower drift	SE	:	0.340-0.032	•

## REILLY .R & CHEMICAL CORPORATION TRIAL PREP.

(11)

HISTORY OF WELLS

The monitoring well data does indicate the higher phenol content is in the south east corner of the plant site and across the property line to the southeast between Walker and Lake St., with the higher concentration in the glacial drift.

Monitoring wells 9,13,14 and 17 were analyzed for PNA's. No PNA's were reported in well 14 at detection limits of 0.03 ppm. Well 17 had a PNA concentration of 1.7 ppm. (48)

Well 17 is located the farthest from the plant site approximately (1000 ft.) and drilled into the lower drift. Why, it has a higher PNA concentration than wells 9 and 13 which are closer to the plant site and drilled only to the middle drift was not explained. Well 14 is in the same area, but drilled to the St. Peter.

#### Other Wells

The following is a list of other reported wells in the St. Louis Park and plant site area. No phenol or PNA determinations have been made on these wells. (49) Wells identified by Sunde (1974) in his survey of well logs, but not located in the Barr Engineering field survey:

Milwaukee Rd. 3612 Alabama Strom Block Co. Strom Block Co. Black Top Service Co. Hinckley St. Peter

Jordan " cased to 1st bedrock

and may be sealed

cased to the St. Peter

Wells not identified by Sunde in 1974 survey, but located during field survey:

Mill City Plywood lower drift tarry taste, noLakeland Door Co. Platteville no tarry taste, not in use

Ace Mfr. Co. 3825 Edgewood No log available
Hartman Well 3700 Colorado 160 ft. no smell or taste

Methodist Hospital St. Lawrence Cased to Jordan

Wells for which logs were found, but had not been previously reported.

Rogers 7401 Walker St.

Lake Land Door Co.

Terry Excavating 3326 Republic

St. Peter

Platteville

112 ft.

Cased to lst bedrock

This report was based on information gathered from correspondence between the Republic Creosoting plant at St. Louis Park, Minn. and the main office of Reilly Tar and Chemical. Correspondence between the above offices and the City of St. Louis Park and various offices of the State of Minnesota. Plus the following reports to

## HTER-OFFICE CORRESPONDENCE REILLY TAR & CHEMICAL CORPORATION

the MPCA:

Barr Engineering Report June, 1977

Eugene A. Hickok & Associates Report "Ground Water Investigation Program at St. Louis Park, Minn. progress Report 1.

Sept. 1969

Minn. Dept. of Health - Division of Environmental Health Section of Health Risk Assessment" Health Implications of Polynuclear Aromatic Hydrocarbons in St. Louis Park Drinking Water. Nov. 1978

Very truly yours,

William R. Roder

## REILLY TAR & CHEMICAL CORPORATION TRIAL PREP. HISTORY OF WELLS

(13)

#### References and Documentation Used in Report

```
A. E. Larkin
    lx 17-10-29
                     A. E. Larkin
 2.
    lx 17-11-3
    lx 17-11-3
 3.
    1x 17-9-5
                      - 11
                              11
 4.
                      11
                              11
 5. lx 17-10-5
6. lx 17-10-16
                      11
                    . 11
 7. lx 33-4-4
                     W. J. McLellan
     1x 34-3-26
                     A. E. Larkin
    1x 17-10-29
                   A. E. Larkin
     lx 17-11-5
     lx 17-11-13
                     McCarthy Well Co.
     1x 17-11-26
                     A. E. Larkin
     1x 17-12-10
     1x 33-4-4
                      11
     1x 33-4-8
                     R. L. Rademacher
     lx 33-5-10
10. lx 33-5-23
11. lx 33-6-22
12. lx 33-5-18
                     T. E. Courtney
                     R. L. Rademacher
13. 1x 38-11-18 T. E. Courtney
14. lx 40-10-14 W. J. McLellan
                    H. L. Holstrom
H. L. Holstrom
H. L. Finch
15. lx 55-4-28
16. lx 58-3-5
     1x 62-7-18
17.
18.
19.
     Barr Engineering Report 1977-6 page III-34
     1x 33-5-23
                  T. E. Courtney
     lx 38-11-18
                     Twin City Testing Lab.
     1x 68-6-24
     Barr Enginerring Report 1977-6 page III-34
20. Barr Engineering Report 1977-6 page IV-19
21. lx 33-4-4
22. lx 33-7-12
                   A. E. Larkin
                  R. L. Rademacher A. E. Larkin
22. lx 33-7-12
23. lx 38-6-3
24. E. A. Hickok & Associate Report 1969-9 page 5
25. E. A. Hickok & Associate Report 1969-9 page 17
26. E. A. Hickok & Associate Report 1969-9 pages 5-6
     Barr Engineering Report 1977-6 table #6 MCPA Report 439 1970-4 page 2
27.
28.
     Barr Engineering Report 1971 -6 page IV 20
     Barr Engineering Report 1971 -6 page VII 3-4
29.
30.
31.
32. E. A. Hickok & Assoc. Report 1969-9 page 13
33. Barr Engineering Report 1977-6 page VII-1
                                       page III 33-34
34.
     Minnesota Dept. of Health "Health Implications of Poly nuclear Aromatic
35.
     Hydrocarbons in St. Louis Park Drinking Water" 1978-11 Table I
```

# REILLY TAR & CHEMICAL CORPORATION

(14)

TRIAL PREP HISTORY OF WELLS

```
Barr Engineering Report 1977-6 page VII 3-4
    Minn. Dept. of Health Division of Sanitation Report or Investigation of Disposal
37.
     of Wastes at the REpublic Creosoting E. St. Louis Park, Minn. 1938-5
     Same as 37
38.
39.
     lx 40-10-14
                     W. J. McLellan
40.
     lx 40-10-14
41.
                      **
     1x 40-10-14
42.
     E. A. Hickok and Assoc. Report 1969-9 page 17
43.
44.
     Same as 37
     E. A. Hickok & Assoc. Report 1969-9 Table I & II
     Barr Engineering Report 1977-6 table #7
" page IV - 15
45.
                                   11
                          77
                                     page III 33-34
46.
                        . 11
                 11
                                     table #5
47.
     Barr Engineering Report 1977-6 page III 33-34
48.
                                       page III 22-24
49.
               lx 17-10-29 A. E. Larkin
     Sample:
               lx = Reilly Tar & Chem. Co. correspondence
               17 = year 1917
               10 = month
              .29 = day
                A. E. Larkin writter.
```

WR/jr

·					#	- #
	Type	FILE	WATER COOLING FOR PANS OBSCLETE CYCLES /HOUR - 3700 GALTK & 175 GP. M. PUMP	BY E.T.&C.Com	Drwg	FILE"
	アア		WATER COOLING FOR PANS			210-1
	-/	<b> -</b>	CYCLES /HOUR - 3700GALTK & 1/5 GP.M. PUMP	. //		
· ·			<u> </u>	• =		:
			The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa	: <b>*</b> •		·
··						
· · · · · · · ·						
		]				
 .: 					_	
			and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		-	
		_				
T	ļ	↓				
1	J	ļ		·		
·						
					•	
i				•		·
· • · • · •	-					
·	.  · · · <b>-</b> -	<b>-</b>	· · · · · · · · · · · · · · · · · ·			
-	-	ł .	in the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contrac			  -
	- ·	1				
·		]	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s			
		-				
	-					
; <del></del>	+-	†···				
}						<b>.</b>
·						
<u></u>		ļ				
	1 -					
	]				·	
		l				
	1_	<u> </u>				·
·	ļ					
·	<del> </del>	<b> </b>		}		
:	╡	<b>_</b>			<u>-</u>	
	ļ	<b> </b>		<u>-</u>		
· <b></b>	┦	┼				
-	<b></b>	<b>}</b>			. •	
·	-	-				
—(°-	<del></del> -	<del> </del>				
, <del></del>	+	+				
		†	·- · · · · · · · · · · · · · · · · · ·			
	<del></del>		the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon			
	<del> </del> -	1:				,
	1	- '				
			Financia de la composiçõe de la composiçõe de la composiçõe de la composiçõe de la composiçõe de la composiçõe	· +	-··· ·	; -
				***************************************		
		<b></b>	***************************************	····		· · · · · · · · · · · · · · · · · · ·

		.;		27	71	
. }	fire	Fice	TITLE	1	Dews. #	t e
	T		GAS PIPING & PANELBOARD-RILEY BOILER	RT\$CH		271-1
٠						
	·					
					ŀ	
:						
			•			
			·			
	,					
			·			
.1						
i			·			
***************************************						
***************************************						

(

					2/2	_	
	TYPE	Fire	Tree		٠	<del>ار</del> : #	i- #
	7	PS	FEEDWATER HEATER PIPING		DY	DRWG	FILE# 272-1
<del>-</del> .			-1 -LOWAJER CLAJER FIFING		KIZCH	}	272-1
						ļ	
					. <u></u> .		
			the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th			}	
<del>.</del>			· · · · · · · · · · · · · · · · · · ·			İ	
:			· <del>····································</del>				
			i provincia de <del>la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición del composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición d</del>				
						1	
<b>-</b> .				;			
				į			
	ŀ						
					٠.	[	
			· · · · · · · · · · · · · · · · · · ·	-			· -
					-		
						1	
•						-	
					l		
							,
:						!	
							-
	ļ						
,							
•							
•					ı		
		-	to the commence of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contrac				٠.
					••		
·							
	l						
			<del></del>				
- · · -			<del></del>				
						·	
•	(		· · · · · · · · · · · · · · · · · · ·				
<del>-</del> •,			· · · · · · · · · · · · · · · · · · ·				
				ĺ	•	{	
		-	<u> </u>	1			•
	) _ i	ı . İ	la de la companya de <del>la companya de la companya de la companya de la companya de la companya de la companya de</del>	. 1	ļ		
					•••••		<b>-</b>
***************************************			~~,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
***************************************						****************	***************
************				***************************************			
***************************************							
***************************************	******	********				******************	***************************************
							• • • • • • • • • • • • • • • • • • • •

	•							<u></u>		2/5			
•	T	FUE	SEE	DRUG	267-1	TITLE (PAN	EXTENS	SION)	. '	BY RTZ CH	DAWS.	71LF = 273-1	
							•				•		
		<u>.</u>		·									
					·								
							•				•		
				•									
,			-					·					
		-										·	
	1	1	1		:.					[			

e cua	TITLE	BY	DRWG.	PILB
	PRELIMINARY LAYOUT	RTICH	282-1	08
PS	LAYOUT #2 STATIC BAY ADDITION TO E.P. PLANT	•	, _2	08
- ps	LAYOUT #3 ADDITION TO PITCHPANS CAP. 21,643 TON/YE		, - 3	08.
	FLOWS HEET-ADDITION TO ELECTRODE PICH PLANT, LAYOUT \$2	••	w-4	OB
12	" LAYOUT #3	•	-4-5	08
	LAYOUT #4 STATIC BAY ADDITION TO E.P. PLANT	· •	6	08
PH	15'x 19' PITCH COOLER TANK	~	"-7	•
	15x19 NSULATED PITCH STORAGE TANK	4.	8	
-191		•	9	00
- 4	LAYOUT #5 ADDITION TO ELECTRODE PITCH PLANT ELECTRODE PITCH BAY	*	"-"	
	PIPING LAYOUT AND DETAILS.	•	" - 11	
- פע	POLEBARN FOR PITCHPAN	••	"-13	
	PITCH PAN AND DETAILS.	••	14	
		••		[
PH	/AVOUT * G HADITON TO ELECTRODE PITCH PLANT		_ /\	~
		•	15	
- PH	Flousheet #6		16	
PH	Flow SHEET #6 " " ELECTRODE PITCH PLANT PIPTNG DETAILS." ELECTRICAL LAYOUT.	"	16 17 18	
PH	Flow sheet #6 " ELECTRODE PITCH PLANT PIDING DETAILS.  ELECTRICAL LAYOUT.  STO. G. 12" BELT LOADER \$ 18" TYPE"H" CHUTE	". MANIERRE	16 17 18	
PH	Flow sheet #6 " ELECTRODE PITCH PLANT PIDING DETAILS.  ELECTRICAL LAYOUT.  STO. G. 12" BELT LOADER \$ 18" TYPE"H" CHUTE	". Manielre The Jepprey Meg. c.	16 17 18	
PH	Flow sheet #6 " ELECTRODE PITCH PLANT PIDING DETAILS.  ELECTRICAL LAYOUT.  STO. G. 12" BELT LOADER \$ 18" TYPE"H" CHUTE		16 17 18	
PH	Flow sheet #6 " ELECTRODE PITCH PLANT PIDING DETAILS.  ELECTRICAL LAYOUT.  STO. G. 12" BELT LOADER \$ 18" TYPE"H" CHUTE		16 17 18	
PH	Flow sheet #6 " ELECTRODE PITCH PLANT PIDING DETAILS.  ELECTRICAL LAYOUT.  STO. G. 12" BELT LOADER \$ 18" TYPE"H" CHUTE		16 17 18	
PH PH PH	Flow sheet #6 " ELECTRODE PITCH PLANT PIDING DETAILS.  ELECTRICAL LAYOUT.  STO. G. 12" BELT LOADER \$ 18" TYPE"H" CHUTE		16 17 18	
PH PH PH	Flow sheet #6 " ELECTRODE PITCH PLANT PIDING DETAILS.  ELECTRICAL LAYOUT.  STO. G. 12" BELT LOADER \$ 18" TYPE"H" CHUTE		16 17 18	
PH PH PH	Flow sheet #6 " ELECTRODE PITCH PLANT PIDING DETAILS.  ELECTRICAL LAYOUT.  STO. G. 12" BELT LOADER \$ 18" TYPE"H" CHUTE		16 17 18	
PH PH PH	Flow sheet #6 " ELECTRODE PITCH PLANT PIDING DETAILS.  ELECTRICAL LAYOUT.  STO. G. 12" BELT LOADER \$ 18" TYPE"H" CHUTE		16 17 18	
PH	Flow sheet #6 " ELECTRODE PITCH PLANT PIDING DETAILS.  ELECTRICAL LAYOUT.  STO. G. 12" BELT LOADER \$ 18" TYPE"H" CHUTE		16 17 18	
PH	Flow sheet #6 " ELECTRODE PITCH PLANT PIDING DETAILS.  ELECTRICAL LAYOUT.  STO. G. 12" BELT LOADER \$ 18" TYPE"H" CHUTE		16 17 18	
PH	Flow sheet #6 " ELECTRODE PITCH PLANT PIDING DETAILS.  ELECTRICAL LAYOUT.  STO. G. 12" BELT LOADER \$ 18" TYPE"H" CHUTE		16 17 18	
PH PH PH	Flow sheet #6 " ELECTRODE PITCH PLANT PIDING DETAILS.  ELECTRICAL LAYOUT.  STO. G. 12" BELT LOADER \$ 18" TYPE"H" CHUTE		16 17 18	

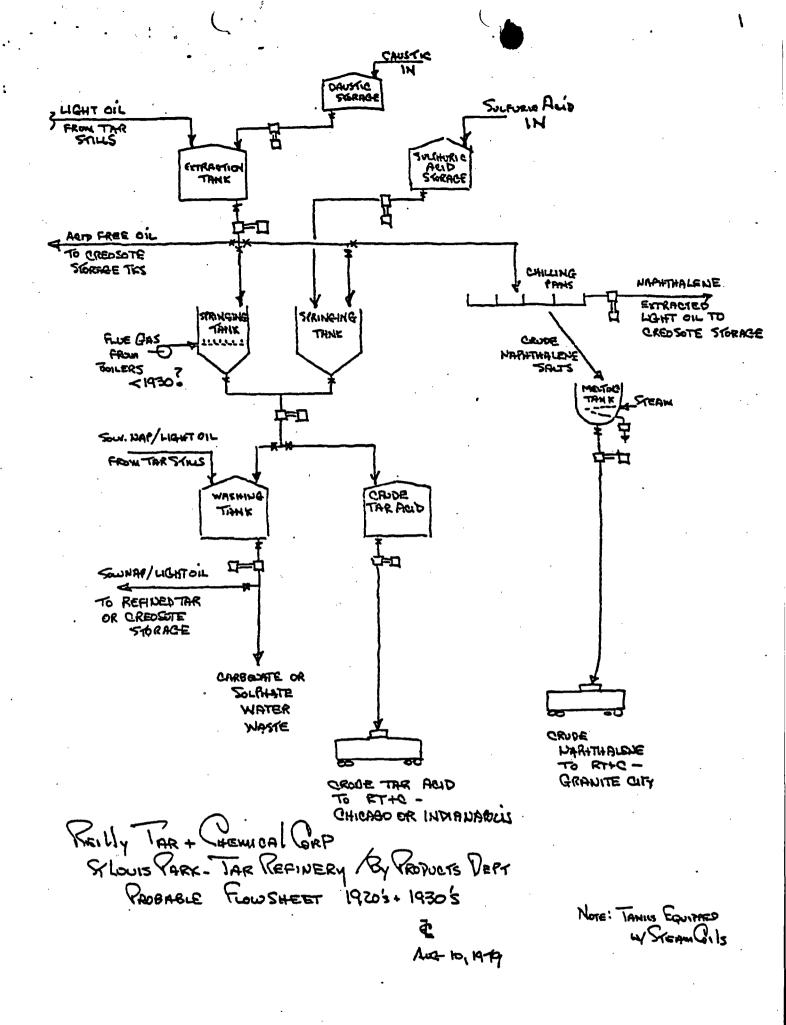
.**.**..

.

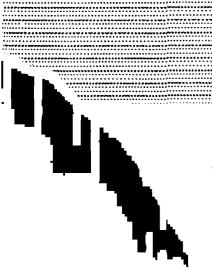
2700 SHELL BY & DAME & FREE F PS CONTERSION OF STILLS 13, 14, 15 \$16 TO FORTUNE PLT & CH *२५*४ √/ PS STILL SUPPORTS PORTS
ANCHOR BOLT LAYOUT 258-27 298 **-3**) ELEGRENCE Ungrand 793-4 PS TUBE STILLS 13, 19, SAHAIB RANGE PS STILL & PLATFORMEN.M. -M 3-85 275-6 ⊋\$ **₹7**? TERRIBE CHEMCOGIATAKETO FROMTIONS 2 C 2-8 ON CHAMBERN RERENTER RETRECTION

	7768	F	TITLE	<b>B</b> -1	Seus s	FLA F
	7		MILL LOCATION OFFICE		: :	259A1
	7		MILL LOCATION	RTICH.	•: :	3-ACES
	T		MILL CONVEYORS (DESIGN DRWG.)	41	:	- 2
	T		PILING LAYOUT & DETAILS			-4
	7		MILL CONVEYOR DETAILS	11	:	55
	7		LIFT OFF DETAIL CHAIM	,,		-6
	T		Mill Conveyor Assembly	,,	. :	- 7
	1		PILING LAYOUT & CONCRETE -179 1 HOS	ア ・	7	- , <del>- ,</del> -
	1	Ì	LIFT OFF DETAILS HYDRAULIE	:	•	- 9
		<u>:</u>	INCISOR INSTALLATION (DESIGN DR)	:		-10
		:			•	.,.
	フ	:	WOOD INCISOR	27 424		-/2
	T	<u>.</u>	NOOD FRAMING DETAIL	وتر وس		<u>/3</u>
	1		FIG FOR DETRILS DRW. 239 A IZ	CT: 22		-14
	7		FIG 28-27 & FIG 36-48 DETAIL DRW 237 A-12	4.4		-15
	1		FIG 68-36 \$ FIG 49 DETAIL DILL 254-12.	STECK	: .•	-16
	7		JAT FUEL STEEL WORK	ر بي مح – ع		/-
	7	: i .	OPERATING SHOE FOR CIMIT SWITCH	5-1 22	· 	- 4
	! 		STEEL DETAIL	£-6 24	: .	- /=
	7		ELECTRICAL & HYDRAUCIC	موند - با فوست	•	7 6 3
	50	! !	ELECTRICAL	Ros		-2,
			PRIMARY_DISTRIBUTION_	Rec	•	
			, _	Rec		-27
			<b>)</b>	_	57.2066	
			JEC THRU VERTILAL DELLE			
			OUT FEEL MINING	•	64: T	
_			" IN FEED CONVENES	,,	11722644	
			" " Our Fren Comityer.		1204-	- 2:
			La Bus Cra			
	/		*	1	r Objectively	
			To Free Leve		• •	-
			LIOSIZETA SOLL PRIE VI			
			1500-01			
			NAT TO A STREET THE MINISHED TOWNS		1340	
	:			· ·	·	
				} :	: !	-
•	-	<u>.</u>			· •	
		,		! : •		

			44			
	17.90	Fig	COMPRESSOR FOUNDATION	BH	Dews 5	FLE B
•	T		COMPRESSOR FOUNDATION	RCC		ಎಎ55-
						•
			•			
					1	
					!	
				Ī		
						!
						!
				·		
	Γ.		•			
			•			
				• •  -		
•						
-				<u>.</u>		_
				·		
					·	
			_			
			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s			
			e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya del companya de la companya de la companya del companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la co	·		
	•			•	i	
•				· · · · · · · · · · · · · · · · · · ·		
******	*********					·····



Cety had a hydrolegist ferm studying Cety Water. Sene Hickork Work a) Afolioliquet frelemenary refront received lef City mign + 11/2 Phee hielth office b) Refuli Status That Phanol Concentration of all well and them Park have over the desirable lemet. Claim was mode that all well have a higher phenol content than the well the Closed down queto a munhor of Jean ago. C) The prelimenary report may next be made public before to elicition Duggistion



Muling with Checker 3 Leve Biokok Masto Coffee At findings Surface outful has to stopped. Teginichaka Natu Skil Bulicat (Non Richam Chauman) Pollution Control Cine To point eve could illow evalur on Shand Annel we Sit up a reaction or au follend with ward auth might To me what me we will take 221168